

Bulletin:

Missouri Southern was closed at 4 p.m. yesterday by college officials due to inclement weather and hazardous road conditions. Evening classes were also cancelled.

In this issue:



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Modern laser surgery is now available for patients living in the Joplin area. Freeman Hospital's new Day-Surg program uses new technologies.



Page 9

Basketball Lions end an eight-game losing streak with a victory over nationally-ranked Emporia State, then lose to Washburn



Page 10

The Chinese Magic Circus of Taiwan will perform in Joplin's Memorial Hall next Friday as part of Multi-Cultural Week festivities.

On campus:

Basketball teams host opponents tomorrow and Saturday in Young Gymnasium. Multi-Cultural Week runs Monday through Friday. College prepares for third annual Phon-A-Thon

KOZJ sets target date for Joplin

January 1986 is the target date for KOZJ, a new public broadcasting channel in Joplin, to be on the air.

Through a cooperative agreement with Ozark Public Telecommunications, Inc., Missouri Southern Television Services will be enlarging its outreach efforts.

Ozark Public Telecommunications, Inc. of Springfield is the operator of KOZK, the public broadcasting television station that serves the Ozarks.

An application has been filed by KOZK, Channel 21, with the Federal Communications Commission to build a 10,000 watt satellite television station in Joplin. This

new station will operate on Channel 26. Its call letters are tentatively KOZJ.

According to Richard W. Massa, head of the department of communications, the target date "depends upon approval of the FCC application and approval of funding by the government. In addition, residents of the area will have to raise some \$100,000 to make this possible. A steering committee made up of residents of Joplin, Carthage, Webb City, and Neosho have been directing efforts and a fund raising committee independent of that committee has been formed."

Those on the steering committee include Massa, John Wright,

Neosho; Pam Pryor, Joplin; Julie Orr, Carthage; Dr. Mark Cotner, Joplin; Don Shead, Webb City; Dr. Charles Niess, (chairman) Joplin; and David LaMothe, Joplin.

Regarding programming, only one-half hour daily will be programmed by Missouri Southern Television Services and will consist of "primarily public affairs programming," said Massa. The signal of KOZJ will be transmitted from Joplin the remaining time.

Massa explained why this agreement is unique. "What this agreement means for Missouri Southern basically is that we have all the advantages of having our own public broadcasting station without any of

the overhead expenses. Production costs will be minimal because these productions for the new station will be those also produced for MSTV, Missouri Southern's cable television operation."

Art Luebke, general manager of KOZK, said, "The basis for this agreement was MSTV's current production as viewed and examined by representatives of KOZK. KOZK has stated that in operation of the satellite station they will maintain a 'hands off' policy. Your staff and students are capable of handling these day-to-day matters and are in a far better position than we to make decisions about how to serve the Joplin area. We trust that

this programming partnership meets not only your (Missouri Southern's) institutional goals but serves to increase the value of your students' training."

Massa also said this would allow for a greater audience.

"Students in television broadcasting classes will have the opportunity to have their work viewed by a much larger audience, and, in addition, we will have access to additional production facilities through arrangements being worked out with KOZK in Springfield and

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The Chart

Missouri Southern State College, Joplin, MO 64801-1595
Thursday, Jan. 31, 1985, Vol. 45, No. 12



First meeting: Tim Eastin, the student representative to Missouri Southern's Board of Regents, attended his first meeting Friday. (Chart photo by Daphne Massa)

Child care center now in operation

As of last week, Missouri Southern officially has a child-care center in operation. Dr. Glenn Dolence, dean of students, announced the news at Friday's Board of Regents meeting.

The College is taking over the Ecumenical Campus Ministry facility on the southeast corner of Newman and Duquesne roads, known as the Sunshine Corner Child Care Center. The building will be used temporarily until a new child-care center facility is constructed by the College.

"We're in operation right now," Dolence said last week. "We've called people and told them to go ahead and make arrangements with Sunshine Corner."

Under the new arrangement, Missouri Southern will be leasing the facility from E.C.M., and the staff currently employed will remain there. The facility will be licensed for a maximum of 48 children.

In November, blueprint drawings of a proposed center to be located near the Police Academy were presented to the Board by Richard Patterson, a local architect.

The exterior plans for the proposed center were not consistent with the established norm for other buildings on campus. As a result, the Board was hesitant to completely support the proposed plans. The Board was also considering an addition to the Taylor Education and Psychology building.

"Dr. [James] Jackson, a professor at Southern, is also president of the board which governs the center now," said Dr. Paul Shipman, vice president for business affairs. "He polled four of the six Board members, and they saw no reason not to allow Missouri Southern to take over the facility. Paula

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Multi-Cultural Week begins Monday

Informative seminars, international cuisine, and cultural entertainment are the highlights of Missouri Southern's Multi-Cultural Week, beginning Monday.

"The purpose is to honor our international students and to acquaint other students with their cultures," said Kathy Lay, coordinator of student activities.

A celebration by the Missouri Southern International Student Club from 9 a.m. to 1 p.m. Monday kicks off Multi-Cultural Week. The celebration features ethnic dress, special music, multi-cultural displays, flags from around the world, and refreshments. These

events will take place in the Lions' Den.

From 9 a.m. to 1 p.m. the slide show "People Around the World" will be presented continuously in the Lions' Den.

Beginning at 10 a.m., Dr. Carmen Carney, professor of communications, will chair a panel on "What is Multi-Cultural Education?" Dr. Robert Markman, associate professor of history, will address "Changing patterns of immigration and implications for multi-cultural education." Dr. David Tate, associate professor sociology, will lecture on "The meaning and significance of multi-

cultural forces in the U.S. today."

Robert Steere, professor of education, will speak on "Multi-cultural education applications in the classroom." Dr. Bert Patrick, professor of Spanish at Pittsburg State University, will be a moderator and respondent. These lectures will take place in the Conner Ballroom of the Billingsly Student Center.

From 10:40 a.m. to 1:15 p.m. in the BSC cafeteria and Lions' Den is the Germanfest. Persons can feast on leek soup, sauerbraten with ginger sauce, fried knockwurst, sweet and sour red cabbage, hot German potato salad, creamed peas with onions, sauerkraut salad

spinach salad, and German chocolate cake. American Food Management will provide all the special all-you-can-eat meals this week for \$3.35 in the cafeteria.

At 11 a.m. is a Spanish classical guitar concert by Ron Hudson of the Institution of Hispanic Culture. Persons can hear music from Bach to Paul Simon as well as that in the Spanish tradition.

From 10:40 a.m. to 1 p.m. on Tuesday in the cafeteria is the Polish-Lithuanian cuisine.

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Industrial astronaut to speak tomorrow

Engineer and astronaut Charles Walker, the first industry-sponsored astronaut to fly on the space shuttle, will appear tomorrow at a luncheon in the Magnolia and Cedar rooms of the Holiday Inn-Holidome.

Hosted by the Joplin Chamber of Commerce, the luncheon will be held from noon to 1 p.m., followed by a press conference.

Walker was named payload specialist for the McDonnell Douglas Electrophoresis Operations in Space (OES) payload in June 1983. On Aug. 30, 1984, he operated the EOS separation device, a device that separates materials in solution by subjecting them to an electric field (see related story), on its first space-based production run.

Walker will be flying another mission as EOS payload specialist on March 19.

Walker is chief test engineer for the McDonnell Douglas project and has made contributions in engineering, planning, development, and space flight test and evaluation.

Since becoming involved with the project in 1978, he has conducted the flight simulation exercises with the EOS hardware and trained four crews of astronauts to use the equipment. He worked on

the payload integration team when the EOS device was installed in the shuttle's middeck, and was responsible for flight operations through mission control at the Johnson Space center during the unit's four previous flight tests.

Walker joined McDonnell Douglas in 1977 as a test engineer on the Aft Propulsion Subsystem for the shuttle. His background in fluid dynamics and interest in the fields of materials processing led him to the EOS project in 1978.

Before joining McDonnell Douglas, Walker was a project engineer for Naval Sea Systems Command Engineering Center in Crane, Ind. His duties included computer-based manufacturing process controls, ordinance production equipment design, and project management.

Walker graduated in 1966 from Bedford (Ind.) High School, and then attended Purdue University where he received a bachelor of science degree in aeronautical and astronautical engineering.

He is a member of the American Institute of Aeronautics and Astronauts, the American Astronautical Society, the National Space Institute, the L-5 Society, The Nature Conservancy and a fellow of the British Interplanetary Society.



Sigars viaduct: Construction has begun on the Broadway viaduct in Joplin. The structure will be named in honor of Vernon Sigars.

Viaduct construction underway

By Martin C. Oetting
Executive Manager

When a major through street in a city is closed, the entire community is affected. When the Broadway Viaduct in Joplin was torn down four years ago, the city of Joplin was affected in many ways. That is the philosophy of Vernon Sigars, a longtime citizen of Joplin and the organizer of a campaign to build a new viaduct.

This winter construction is underway on a 565-foot, \$2.6 million

viaduct that will bear the name "Vernon Sigars." Construction is expected to be complete by the fall of 1985.

A viaduct was torn down in 1981 due to its deteriorating structural condition. As a result, several blocks just east of the viaduct area suffered from a drop in traffic, and residents in the area found it difficult to get downtown.

Citizens immediately began a drive to build a new viaduct in the same location. "The way I figure it, 900 square blocks of Joplin were

affected directly by the closing of the viaduct," Sigars said. "From Main Street east to Rangeline, and from Fourth Street north to Zora, the area was shut off from direct access to the downtown area. At least one fifth of the population of the town was shut off."

Sigars and several other supporters headed a major campaign to generate community support for the

Please turn to Viaduct, page 10

Casting of lanterns to begin

Reconstruction of the College symbol is underway. Patterns of new lanterns for the campus are being made by the Wade Pattern Shop of Joplin.

According to Howard Dugan, director of Missouri Southern's physical plant, the drawings are supposed to be finished by the end of this week.

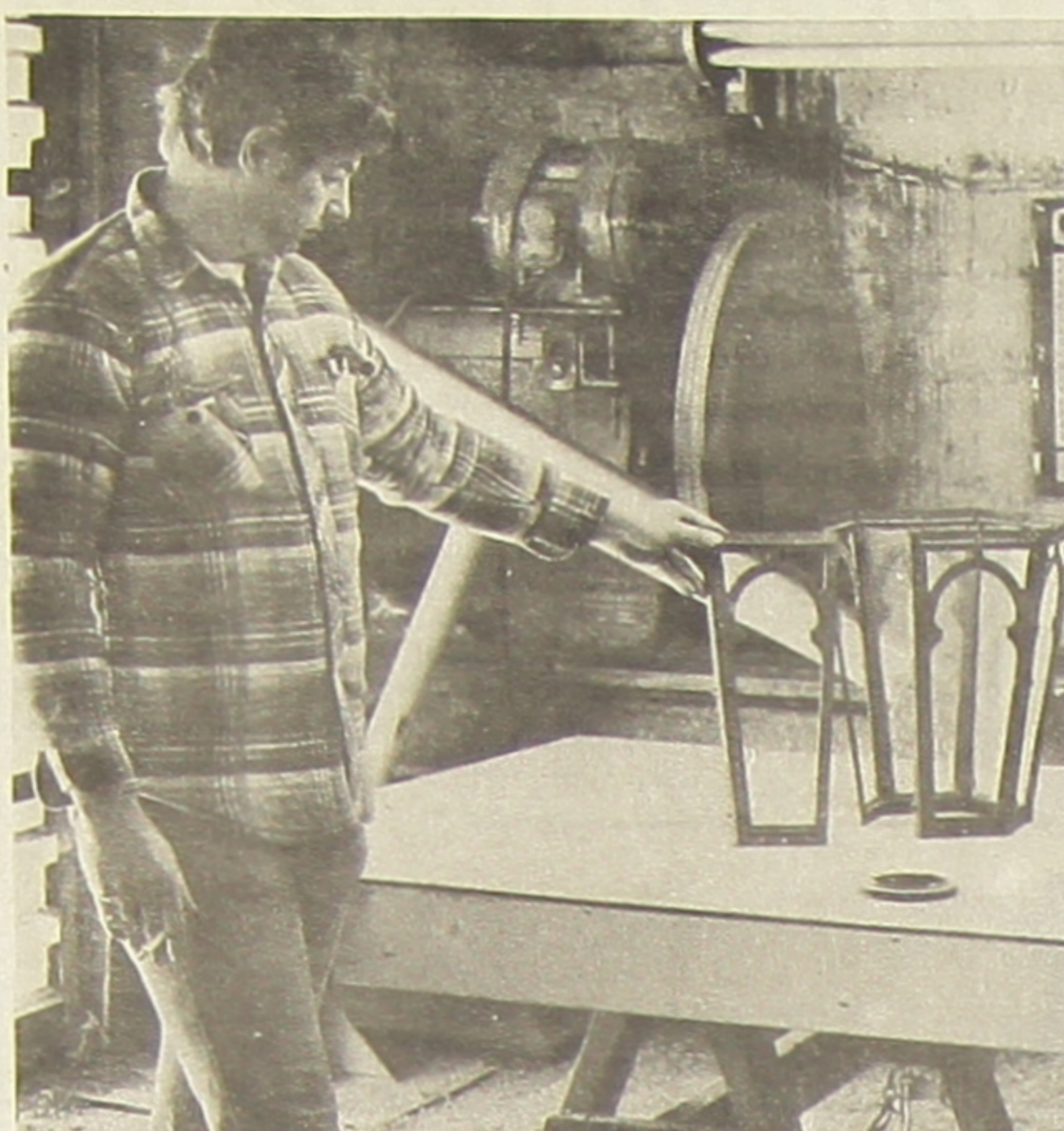
After the patterns are made, casting of the lanterns will be done.

"We haven't got all of the bids in for the casting work yet," said Dugan. "Hopefully within the next month we should have some cast."

In the first group cast, some 10 lanterns should be made.

"The Missouri Southern Foundation is going to put a plaque section honoring alumni who have made large contributions to the College," he said. "This will be placed in the first landing in the union of the north side brick wall."

"On each side, on the east and west walls, we are going to have two lanterns placed. We also plan to replace some of the lanterns that have been stolen around campus."



Forrest Lynch, owner of Wade Pattern Shop, sizes a College lantern. (Special photo by Howard Dugan)

MSTV purchases satellite receiving dish: Reception improves

Installation of a new satellite receiving dish for Missouri Southern Television was completed last Thursday and, according to Richard Massa, head of the department of communications, the system is fully operational.

"It was purchased at the present time because of MSTV needs," said Massa. "We encountered some problems with reception with the cable system."

"As a result we will be having a higher quality of recording programs because we will be recording directly from the satellite transmission rather than from the cable system."

In an effort to improve the foreign language laboratory, programs from Spanish and French channels will be recorded.

"Very shortly MSTV will begin airing programs in French and in Spanish," Massa said. "We've been given permission to monitor the Spanish and French channels and record complete programs off those for use."

"Part of the goal there is to help the viewing public to become more informed with the foreign cultures and to see original productions from these countries."

The dish will also be used in the development of teleconferences. According to Massa, the system is presently equipped for teleconferencing, and he is looking at the possibility of one during the 1985-86 school year.

The dish, which is 12 feet in diameter and approximately 14 feet high, was purchased for \$4,000 from Paracclipse, Inc. through Norman Electronics in Joplin. It is located between Matthews Hall and MSTV studios.

"Last semester we decided to investigate the possibility of purchasing a dish," Massa said. "We took bids, and Norman had the lowest."

"The uses of the dish are really limitless. Supposedly we can pick up 200 different stations."

"It has been said that when an institution buys a satellite receiver that the world has been opened up to that institution because there is a vast amount of programming on satellites with educational value and there are channels which the public isn't aware of."

"Cable viewers in Joplin will be able to enjoy some of the advantages of satellite dish owners have."



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Carney plans field trip to Mexico

Students can earn academic credit for spring break tour

A field trip to Mexico will be made by students as part of a course planned by the communications department and the division of continuing education during the spring break from March 8-12.

The course will allow students to travel and study a different culture through personal experience.

According to Dr. Carmen Carney, professor of communications, about eight persons are currently enrolled in the course. Enrollment deadline is today.

In addition to the trip, there will also be eight class meetings before the trip. The classes will be taught using the English language.

"With the help of audio-visuals we will be studying the history of Mexico from the early civilizations to contemporary Mex-

ico," said Carney. "We will also be reading recent articles from periodicals to learn about the problems of their culture."

During the seven-day trip the group will spend three nights in Mexico City, visiting important landmarks, including a stop at the Museum of Anthropology.

"This is one of the most important museums in the world, because it holds collections from the ancient Aztec and Mayan civilizations," said Carney.

The tour also includes a special six-hour tour to the Teotihuacan Pyramids.

Carney was able to work in this area in 1970 in an anthropology project with her husband.

"It is like a city, but it is not an Aztec ruin like many people believe," she said. "It is actually from a much earlier

civilization and this place was almost ruins when the first Spaniards arrived there."

Students will also spend one night in Taxco, and the remaining three days will be spent in Acapulco.

The cost of the tour is \$617 per person based on double occupancy, or \$579 per person based on triple occupancy.

This fee includes air transportation to and from Mexico City, all tours, arrival and departure transfers, baggage handling and hotel taxes.

Interested persons need to contact Carney or Connie Patchin in the communications department, Room 111, Hearnes Hall.

Elick studying aquatic animals

Professor on sabbatical at University of Texas-Arlington

Scientific research offers a constant challenge to those engaged in the search to either expand or renew their knowledge in any given field. Dr. Gerald Elick, associate professor of biology and geology at Missouri Southern, has a particular interest in small animal life.

Elick is currently on sabbatical leave at the University of Texas-Arlington, according to Dr. Vonnie Prentice, head of Southern's biology department.

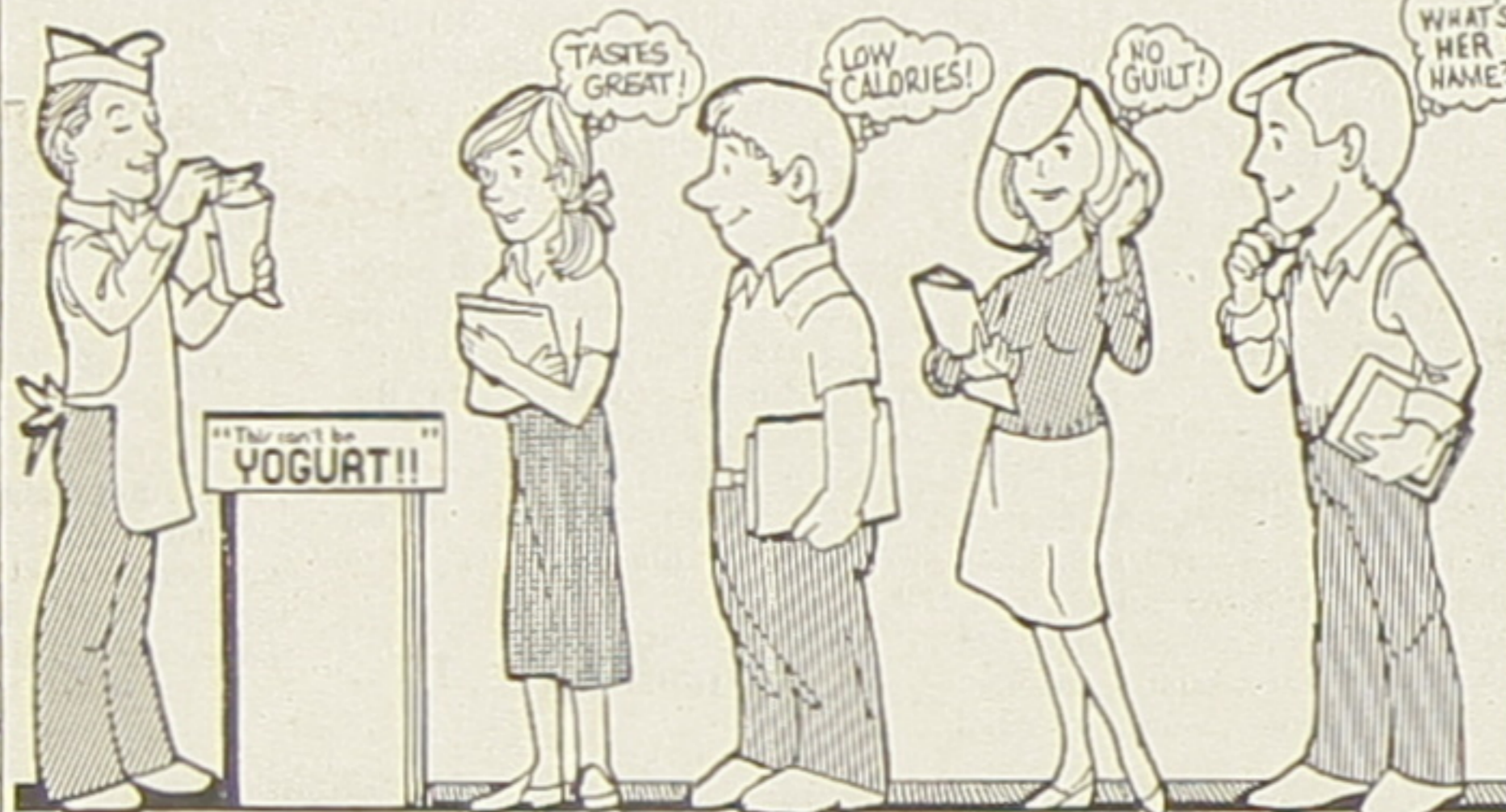
"Dr. Elick is currently conducting research into the physiological response of

aquatic animals to environmental changes in temperature and other factors," Prentice said.

Prentice said Elick has teamed up with Dr. Robert McMahon, staff psychologist at Texas-Arlington. Elick and McMahon are particularly interested in the smaller species of aquatic animals such as snails or small fish.

Elick, according to Prentice, "took a break and wanted to update his knowledge on small aquatic animals." Elick will return to Southern this spring.

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Officer talks on rape

Through film 'How to say no to a rapist,' students learned how to prevent tragedy

Rape prevention was the topic of a seminar held last Thursday in the lobby of South Hall. Dale Owen, detective sergeant for the Joplin Police Department, presented a film and discussion session for some 25 students.

How to Say No to a Rapist...And Survive was a filmed lecture of Fredrick Storaska, who called himself an expert on rape.

In the film, Storaska explained his reason for becoming involved in rape prevention. He had witnessed an attack upon an 11-year-old girl by several boys. Other persons at the scene were doing nothing so Storaska stepped in and used martial arts on the attackers.

Since that time he has done research to determine what methods of protection can be used.

To be trained in the martial arts, according to Storaska, is the best form of protection. However, few persons will devote the time.

He urged the audience not to struggle or scream unless someone is near to help. These action tend to anger the attacker and the victim risks being seriously injured or even killed.

The best thing to do, if a confrontation is unavoidable, is to go along with the rapist until he is at a weak moment. Then one of two actions could be taken.

The first, Storaska said, is to place the hands on the upper part of the rapist's face and poke out the eyes with the thumbs. If that attempt cannot be used,

the victim should try to reach the groin area and squeeze the testicles as tightly as possible. This will put the person in shock and the victim can run for help.

Prevention is the key, however, and Storaska recommended several common sense rules.

Don't walk alone, especially at night. Above all, he said, *do not hitchhike.*

After the film, Owen restated the main points. He recommended that if a person had to go out, to wait until a friend could go along.

If there is no way to prevent a rape, and the victim is violated, the crime should be reported immediately.

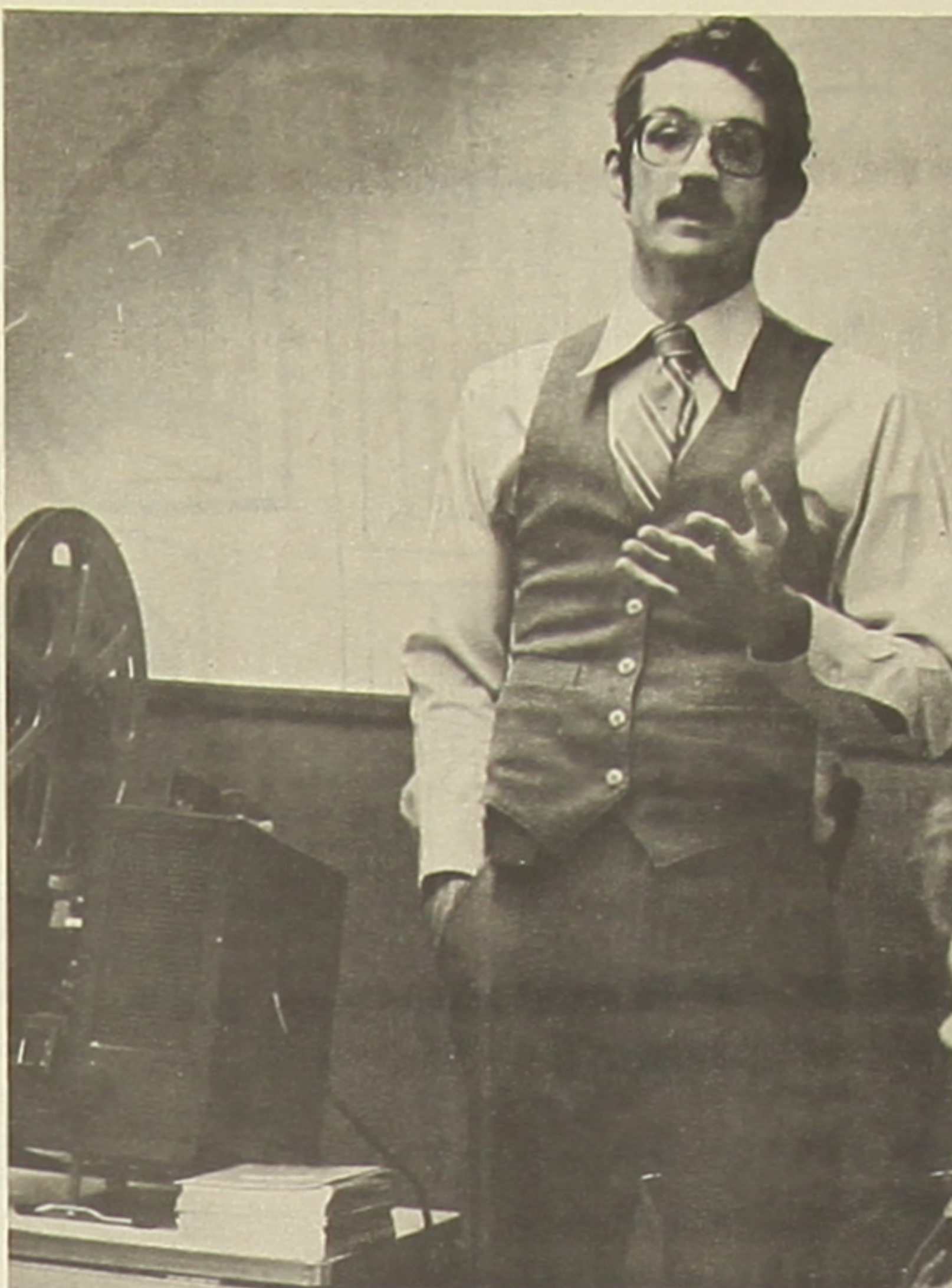
"Police need clothing, bedding, anything that can be used as evidence," he said. "The victim should also go to the hospital immediately. Don't wait until the morning after, or after bathing."

Owens said that only one out of every 10 rapes is reported.

"Fourteen or 15 were reported in Joplin last year so 140-150 actually occurred."

Frequent obscene phone calls should also be reported.

"Traps can be used and other measures attempted to catch the offender," Owen said. "A woman in Joplin received consistent calls from the same person. She was later raped. She reported it to the authorities. Subsequent phone calls were received from the same caller, and she automatically contacted police. The rapist made a second attempt and police apprehended him."



Gives talk Joplin Police Detective Dale Owen lectures students on rape prevention in South Hall. (Chart photo by Barb Fullerton)

Board asks Southern for plans

Aery sets deadlines

Public discussion and correspondence lead Missouri's Coordinating Board for Higher Education to revise recommendations for public institutions.

Addressing the last meeting, Dr. Shalla Aery, commissioner for higher education, said, "It is time to bring closure to the recommendations regarding institutional purposes."

She also suggested that the Committee on Academic Affairs consider each recommendation separately and make as many of the recommendations as possible to the Board for approval.

Regarding Missouri Southern, the Coordinating Board now recommends that the Board of Regents submit a "three- to five-year plan outlining academic priorities, how programs are to be strengthened, and in what areas the Board of Regents can outline to work with the other higher needs of the southwest corner of the state."

Aery explained that all these revisions are "very similar to the original recommendations. That is, each consists of specific requests to the governing boards that are appropriate to the findings from the statewide assessment data about each institution."

Central Missouri State University's Board of Regents has been recommended to submit to the Coordinating Board, Aery said, a three- to five-year plan "outlining academic priorities, how the reallocation of resources to achieve priorities will be accomplished, and how the institution will distinguish itself in substantive ways from the other four-year universities." This plan is to be submitted in September 1985.

From Southeast Missouri State University the CBHE has asked for a plan "for fewer but more distinctive programs that build on current or developing academic

'Greater variety and higher quality' programs on MSTV:

Second season features mixture of new and old

MSTV, Missouri Southern Television, is beginning its second season with a mix of old and new programming. Some shows from the first season will be continued and several new shows have been added.

"The second season promises greater variety in programming, and higher quality," said Richard Massa, executive producer/manager. "This second season is, in reality, the second semester of a college year. Students who produced program-

ing during the first semester were, for the most part, untrained and unprepared for the tasks which lay ahead of them. Now, with a season behind them, there are new signs of maturity and skills. Now MSTV begins its next steps forward."

During the first season, MSTV experienced difficulties with transmission from the network through the cable company. To resolve these difficulties, the station recently had a satellite dish installed

to monitor the network directly. The satellite will also enable MSTV to broadcast programs from other networks.

Several telecourses are being offered for credit through Missouri Southern Television this spring. These include "Introduction to Data Processing," a telecourse dealing with computers, their concepts, and their applications; "The Money Puzzle," discussing macroeconomics; and "Faces of Culture," with hosts Dr. David Tate, as-

sistant professor of sociology, and Dr. Conrad Gubera, associate professor of sociology, expanding on cultural anthropology.

The Learning Channel, an adult educational network, will continue broadcasting from 5 a.m. until the late

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CBHE, page 10

Learning Center films Martin's class

Students can view tapes in Learning Center for additional help

An experimental project in filming classes is taking place this semester in Dr. Larry Martin's college math 110 course.

The filming is intended for later use in the Learning Center to provide extra help for students, said Myrna Dolence, director of academic development.

"We are trying to build a library of our basic math courses," said Dolence.

This project will benefit students by providing them with a review of the course material, and it will also aid those who might have been absent during a particular class.

"This can also provide additional help for those students who are having difficulty understanding one instructor," said Dolence. "This way a student can see the

way another instructor presents the same material."

According to Dolence, this was done last year in another class and the students seemed to utilize it often.

"This is experimental now, but if it goes over well we might eventually try to use this in other courses," said Dolence.

Student fulfills goal through program

By Daphne Massa
Editor-in-Chief

Southern's 60-Plus Program offered Shirley Osborn the opportunity to fulfill a personal goal.

In December Osborn completed the necessary requirements for a bachelor of arts degree in general studies through the 60-Plus program. "I started in 1981," Osborn said. "I've been going part time since then."

In 1941 she graduated from the Joplin Junior College with an associates degree in science. She said she retired from a medical technologist career prior to her return to college.

Apprehension was one of the emotions Osborn felt in returning to college. She said, "The hardest part was getting my schedule organized, after that it was easy."

Osborn explained that the atmosphere

was something she liked the most. "Everybody was so nice," she said. "I think some of the professors went out of their way to be nice."

"In most cases I was the only one (non-traditional student)."

Returning to school was part of a goal Osborn had set for herself.

Typically, it has been thought that non-traditional students get high grades, Osborn explained why she thought that was so, "I got in there and studied," Osborn said. "I didn't want any compensations for me. I wanted to be just another student. I didn't want special treatment."

"We also set aside the time to study. You don't want to look foolish or come up short."

Returning to school was a "big challenge" for Osborn, but she feels it "forces you to keep on top of things."

She said her family was "very supportive" of her furthering her college education. Osborn described the benefits from one class in relation to her grandchildren.

"I took a children's literature class," said Osborn. "I got so much out of it. It made buying books for my grandchildren a lot easier."

In regards to the 60-Plus program Osborn said, "To me it is one of the best in the area. It's wonderful. I was surprised that there are not more people in it."

Although Osborn may not do anything with her degree, she reasoned why she sought one: "I set a goal for myself so I would have something to work for. I'm interested in education. I think it is an important thing."

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In the open

Gays must stress they're people, too

Localities across the nation are zealously rejecting ordinances to protect the rights of homosexuals to equal opportunities for employment; Houston being the latest to do so. The people's rejection of these policies is the right move, but for the wrong reasons.

The rules should not exist not because discrimination against gays is OK, but because people, male or female, should not be hired or fired on the basis of their sexual preferences. It is natural to hesitate to hire anyone who makes a point of their sexual preferences in a job interview, whether those preferences be straight or gay.

But as long as a person keeps his or her sexual life personal, it is his or her business, and certainly should not be a criterion for hiring or firing. From that point of view, the above mentioned rules should not be there.

What is needed is massive public education efforts by gay organizations to teach the public that gays are people, too. Their sex life is their business—not we the public.

Permanent address should be included

Every semester a plethora of students return to campus in search of grade cards and other information which is mailed to the address at which they reside during the semester and often lost in the shuffle to find them. Why can't the registrar's office amend the program of their computer or expand the memory to hold a permanent address (home or off-campus) and a school address to insure that pertinent information which they are sending arrives at the students address?

It is true that many students live and go to school from the same address, and this creates no problem for the computer. It can be told there is only one address. Many other students, however, live too far away to return and collect their mail from their school address. Changing the computer would help to alleviate the problem.

Leaving it the way it is continues the mess of sending mail to old addresses and having it potentially lost for good to avoid residents' disconcert. This whole thing is easy to fix and would be relatively inexpensive.

Crews doing well at clearing streets

During the recent snowfalls, many areas of Joplin remained inaccessible by foot or by automobile. At Missouri Southern, the maintenance crews have done an excellent job of keeping the parking lots, streets, and sidewalks clear of ice and snow.

Sunday morning, maintenance crews were out removing snow from parking lots before it had a chance to freeze. As a result, students and faculty found it relatively easy to get around Monday morning on campus.



Editor's column:

Computers create problems with copyrights

By Daphne A. Massa
Editor-in-Chief

David Ladd resigned in early January. His job was that of the Register of Copyrights. Now Daniel Boorstin, the Librarian of Congress, will be appointing a replacement later this year.

Reports in *The Chronicle of Higher Education* say this job will bring along with it many questions and problems regarding computers and "intellectual property."

Along with technological advancement, computers have brought with them the problem of copyrighting material. Programs themselves have

been copyrighted, but how does one copyright "intellectual property?"

Laws need to be reshaped in order to protect people who use computers to write manuscripts. These people very easily could be college professors writing their dissertations or articles for professional magazines. What kind of protection do these people have?

Shirley Echelman, executive director of the Association of Research Libraries, asked the question "Is the theft of such material a problem of copyright violation or security?"

From systems devised thus far, there does not appear to be one that is fully amiss from

tampering.

Adapting the copyright to the new technology has put photocopying machines in the limelight quite often. And yet this problem has not been solved. Faculty members on this campus abuse this privilege constantly.

Currently, the Copyright Act of 1976 states that material is allowed to be copied by college professors and faculty when it is being used to educate. Reports have shown this problem is widespread across the nation.

All of the above problem areas need to be addressed and resolved. Hopefully a satisfactory agreement will be reached.

In Perspective:

College already acting on requests in report

By Myrna Dolence
Learning Center Coordinator

A study was recently published which focused the Nation's attention on elementary and secondary education. The study was critical of the product of our elementary and secondary schools, the students. Students, according to the report, were not prepared to enter college, the world of work, or to take their place in society as effectively as they should be. Much re-evaluation is taking place at the elementary and secondary level. It now appears to be higher education's turn to face the scrutiny of the Nation.

A group of college presidents, deans, and faculty were charged to recommend a blueprint for improved undergraduate education. This group spent a year reviewing material assembled by various national commissions that dealt with higher education. Their report focuses on colleges, community colleges, and universities. Despite some very significant successes, they reported that there are warning signals that all is not well in American higher education. The report concludes:

- Only half of those who enter college with the intention of receiving a bachelor's degree eventually do so.
- Mean scores on most of the tests taken by college graduates have declined, some by very substantial amounts.
- Both colleges and students have become excessively vocational in their orientation.
- The ideal of breadth in undergraduate education has been lost.
- Colleges have become more bureaucratic and impersonal, with fewer opportunities for

students to become intensely involved with academic life.

- College curricula have become fragmented, and the ideal of the integration of knowledge has been diminished.
- The physical plant and equipment of our colleges have deteriorated, and students learning has suffered as a consequence.
- Few colleges bother to examine the learning and growth of the students they graduate.

Although this report points to some serious problems facing higher education, the students and faculty of M.S.S.C. should feel very pleased with the positive approach their school is taking in addressing these problems.

In an effort to answer the charge that 50 percent of the students do not complete their degrees, Missouri Southern has established a Learning Center. Even the most capable students sometimes need help with their academic work. The Center provides a professional staff comprised of a counselor, a reading specialist, and a writing specialist. In addition to the Learning Center staff, faculty across campus offer their expertise to the students through the Center. Computers, software, and tutors are available to all students. A committee has been appointed to evaluate the advising and registration process in an effort to provide a more effective personalized system. This, too, should increase students' probability of completing their program.

This year Dr. Leon announced that the college will review and evaluate its General Education program, which addresses the charge of colleges losing the breadth of education as well as the fragmentation of college curricula. Many colleges

have, in the past, reduced the number of General Education courses required of its students. Southern has held to the concept of a broad base of core courses which many colleges are now having to restructure.

The primary strength of Southern to be targeted is its teachers. This is the core and the heart of the college's mission, — a good strong teaching faculty; teachers that take an interest in their students and make their tenure in college a holistic one where learning and involvement with their students continues outside the classroom. The involvement of students continues with the Orientation program, which provides students an opportunity to assume leadership roles while they are in school. It also serves a very vital function of involving freshmen students with upperclass students who serve as role models.

The recent placing of a student representative on the Board of Regents is another example of Southern's commitment to student input and involvement. Students serve on the majority of Faculty Senate committees. The student presidents of all organizations meet monthly with the college President and other members of the administration to discuss current issues and to share information. Involvement of students is evidenced by SAGE, a student organization whose efforts have finally become a reality with a Child Care Center now available to MSSC students and with the promise of a new facility on the way.

Please turn to
Dolence, page 10

Letter to the Editor:

Reader disagrees with views on human sexuality

Dear Editor

I felt compelled to respond to the letter from Cindy Franz entitled "Academic freedom finds its proper place" in the Dec. 6 issue of *The Chart*.

I disagree completely with her comments about the course in "Human Sexuality." In effect, her statements suggest that the less one knows about a subject the better, that increased knowledge can only cause harm. I myself have mixed feelings about this specific course, but her comments seem to almost condemn higher education. If she is a student here at Southern, one wonders what she is doing here.

Furthermore, I was appalled and sickened by her statement about Jerry Falwell's Moral Majority. She completely endorsed censoring and book burning as protections of the public by those

"wiser" than we. I find this statement unbelievable coming from a supposedly intelligent person. There is absolutely no defense for those acts. No matter how personally offensive the material may be to her or Jerry Falwell, they have no right whatsoever to tell me what I may or may not read.

Finally, it is ironic that she could end her letter with a statement about "academic freedom." The statements she made in her letter are designed to deny academic freedom, not enhance it or to help it to find "its proper place."

Lee Martin

P.S. Is this the infamous "Sister Cindy" of "Sister Cindy-Brother Jed" fame? That would help to explain the anti-education tone of the letter.

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Missouri's Best College Newspaper

MCNA Best Newspaper Winner

1975, 1976, 1977, 1978, 1982, 1983, 1984

The Chart, the official newspaper of Missouri Southern State College, is published weekly, except during holidays and examinations periods, from August through May, by students in communications as a laboratory experience. Views expressed in The Chart do not necessarily represent the opinions of the administration, the faculty, or the student body.

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An in-depth look

Lasers: the universal tool

Curiosity gives birth to theory

By Simon McCaffery
Associate Editor

Necessity may be the mother of invention, but curiosity was the mother of the laser, a universal tool that reshapes our world in a thousand ways.

The laser, which stands for light amplification by stimulated emission of radiation, was entirely a product of scientific curiosity, according to its inventor, physicist Arthur L. Schawlow, and his brother-in-law, Charles H. Townes.

The inventors were toying with the idea that lightwaves could be focused and intensified. They had no idea that the fruit of their labors would yield countless practical applications. Their theories won them both many scientific awards, the most notable being the Nobel Prize.

Today, 25 years since the first laser was constructed by physicist Theodore Maiman, the laser has found a permanent niche in the rapidly expanding wave of new technologies.

Whether Americans realize it, the laser is constantly at work around them. Physicians, surveyors, communication engineers, law enforcement officials, farmers, and others utilize the macro-tool to simplify and better their trades.

Lasers surround us, but what are they and how do they operate? Science fiction and fantasy movies portray them as noisy, sizzling lances of light, wreaking havoc and certain death wherever they touch. Many see them as powerful future weaponry. Both these ideas are misconceptions that fail to accurately describe lasers.

A laser beam is created when energy created by a flash of light or electric current excites the atoms in the laser source. Substances that can "lase" include gases such as carbon dioxide, helium, or neon; solids such as Nd:YAG (neodymium, yttrium, aluminum and garnet) or ruby crystals; liquids or semi-conductors. These lasing substances emit energy when the atoms excited drop back into their natural energy levels, producing light waves. These light waves are captured between two mirrors that bounce the waves back and forth. These waves travel in the same direction and the same frequency, allowing them to travel great distances without

the narrow beam broadening. These are the concentrated beams of intense light that are emitted through an aperture to be put to work drilling, welding, or carrying information. Besides its unusual source, laser light can be characterized by four distinct properties. Laser light is coherent; all waves of light (photons) are in step or phase with each other.

Laser light is collimated; all rays are virtually parallel to each other.

Lasers are monochromatic; all waves have virtually the same length and energy, and therefore the same color (different sources emit different colors, depending on the intensity of energy).

Lastly, lasers are the brightest existing light known.

In the last quarter of the 20th century, lasers have provided unlimited and ever expanding vistas of potential uses to man. Lasers are well established in the medical fields, they have revolutionized communications with transmission of signals by optic fibers, light highways and bridges, aid in developing agricultural fields, detect and measure molecules, and detect trajectories of bullets or bombs.

In more ways than one, lasers truly "light up our world."



Laser in action Pam Pryor, Day-Surg director, demonstrates CO2 laser. (Chart photos by Barb Fullerton.)

Joplin systems in use

'State-of-the-art' lasers available locally

By Simon McCaffery
Associate Editor

For patients living in Joplin and the surrounding area, modern laser surgery is now an available alternative.

"It is state-of-the-art technology here in Joplin," said Pamela K. Pryor, director of Freeman Hospital's new Day-Surg program. "Patients don't have to go to Tulsa or another larger university for treatment."

Lasers in Joplin are currently being utilized by certified laser surgeons in the fields of epithelial, gynecological and ophthalmological work.

As a surgical alternative new to the area, the laser promises a wide versatility.

"Lasers provide a whole spectrum of uses—almost anything," said Dr. Mark S. Cotner, Joplin's only general laser practitioner.

Area patients may use the new technology available to treat a host of lesions or warts and other superficial problems, internal tumors and neoplasms, or ophthalmological surgery by various locally based surgeons. According to local surgeons, there are advantages to utilizing the laser as an alternative form of correction.

"Lasers coagulate blood around the affected tissue," said Pryor. "They also aid in healing and reduce blood loss by the patient."

"The laser is cost-saving for patients—it is less costly in time, away from school or work, and money."

The laser's advantages have worked in the Joplin area, according to Cotner.

"They (Day-Surg) have been bringing the price down," he said. "The use of lasers provides less total cost than multiple conventional applications of ointments for warts or lesions."

Joplin currently employs several laser systems, including argon lasers (ophthalmology), CO2 lasers (dermatology and gynecology) and three

Nd:YAG lasers (ophthomology at present).

The predominant laser system used at Freeman Hospital's Day-Surg program is the CO2. At present the laser is used primarily to correct superficial lesions, similar gynecological conditions, and venereal warts. The laser can be used with or without a special microscope that attaches to the system for precise cutting. Gynecological surgery is performed with the microscope, while general superficial work is done "free hand" without the attachment.

Freeman's CO2 laser operates with up to 20 watts of electrical power. Some CO2 lasers operate around 100 watts. Because of the power generated by these instruments, safety and precaution is foremost in the minds of those who operate the lasers.

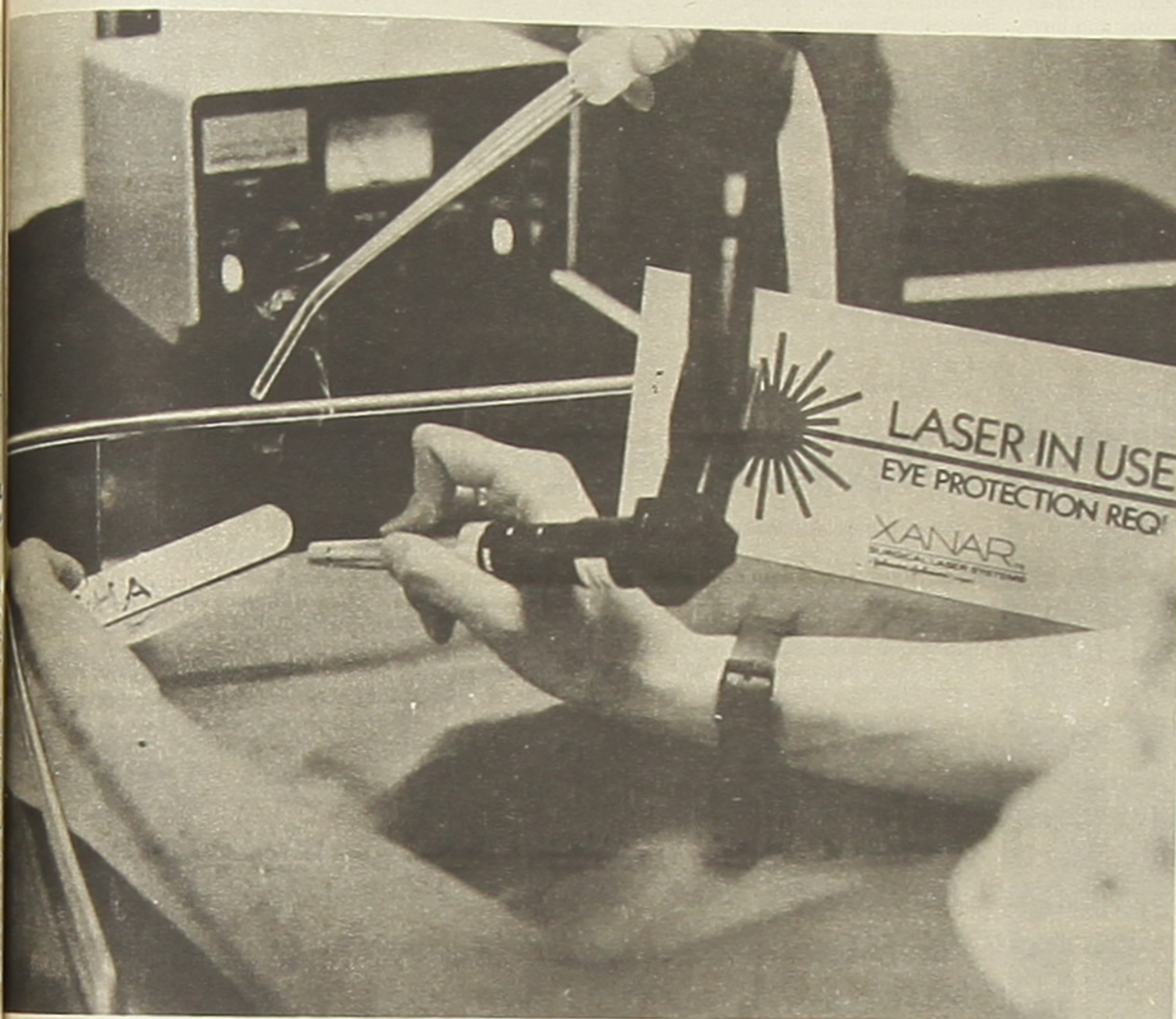
"A CO2 can be dangerous," said Pryor. "It is not something to be taken lightly—nurses and surgeons are extensively trained in laser use."

Operators and patients must wear special goggles or similar eye protection when near an operating laser. Before a patient undergoes any surgery, an extensive safety check list must be completed.

"Lasers are highly scientific, they are not toys, and not something so farfetched. They are used to cure common problems every day."

Laser surgery is a growing medical alternative in the Joplin community. As the various medical facilities in Joplin continue to acquire more versatile equipment, new treatments for a wide range of physical ailments will come about using lasers. According to Pryor, a goal to be reached in Joplin is the public education regarding lasers and their multitude of uses.

"We want to educate the public about alternatives to conventional treatments," she said. "We want residents to recognize the safety, effectiveness, and low cost of lasers."



Laser technology used in area.

The surgical CO2 laser in operation. Carbon Dioxide lasers have been in use in medicine since the 1970's, but only widely accepted in the past five years. The CO2 laser, unique in its ability to vaporize tissue, is best suited for treating conditions in the fields of dermatology, gynecology, and podiatry.

Lasers are surgical alternatives in modern medical technology

Surgical lasers provide solutions to conventional problems

By Simon McCaffery
Associate Editor

Since the first application of laser beams in medical surgery, to weld detached retinas, the laser has been steadily applied to many other areas of the human body, both externally and internally.

While the laser demonstrates great multiplicity, it is regarded as only another tool to be used in conjunction with other tools of medicine. Scapels and lasers are used side-by-side, each to its best advantage.

Lasers may be focused to a fine point of light to perform delicate drilling and cutting tasks, or may be "defocused" to have a wider cone of light, vaporizing larger areas of tissue.

When used in surgery, lasers provide several distinct advantages; they cauterize tissue, may coagulate blood, and stimulate tissue into more rapid healing. Lasers provide a treatment to problems that cannot be performed in any other way, as well as performing certain tasks more efficiently than conventional surgery techniques. Lasers can also aid in providing computers with three dimensional views of tissue regions, providing a more visual model of the planned surgery.

Medical use of lasers began after the first argon laser in 1959. With variable laser materials, bulky equipment, limited

applications, and a high base unit cost, the medical community approached the new form of therapy with some reserve. Manufacturers found it hard to market early models. Not until the need for guidelines, specialized training, and safety precautions were solved did lasers find a definite home in medicine.

Today, surgical facilities use a number of different types of lasers for different fields of work in neurosurgery, ophthalmology (eye surgery), ENT (eye, nose and throat), gynecology, dermatology and urology. Lasers in use differ in the intensity of energy they create and the source of the laser's energy.

Some commonly used lasers include the argon laser, the CO2 laser and the Nd:YAG tunable dye laser system.

The argon laser (blue-green color) is used by ophthalmologists for treating retinal disease. The argon laser can be transmitted through optical fibers to treat bleeding ulcers, as well as endobronchial, gastric, and bladder neoplasms. It is also capable of removing birthmarks and tattoos. It is the weakest of the three, limiting its power, although this is an advantage in treating superficial conditions.

At present, the CO2 laser is the "work horse" of the fields of gynecology, ENT and neurosurgery. The CO2 laser can vaporize superficial tissues, perform bloodless surgery for infertility patients,

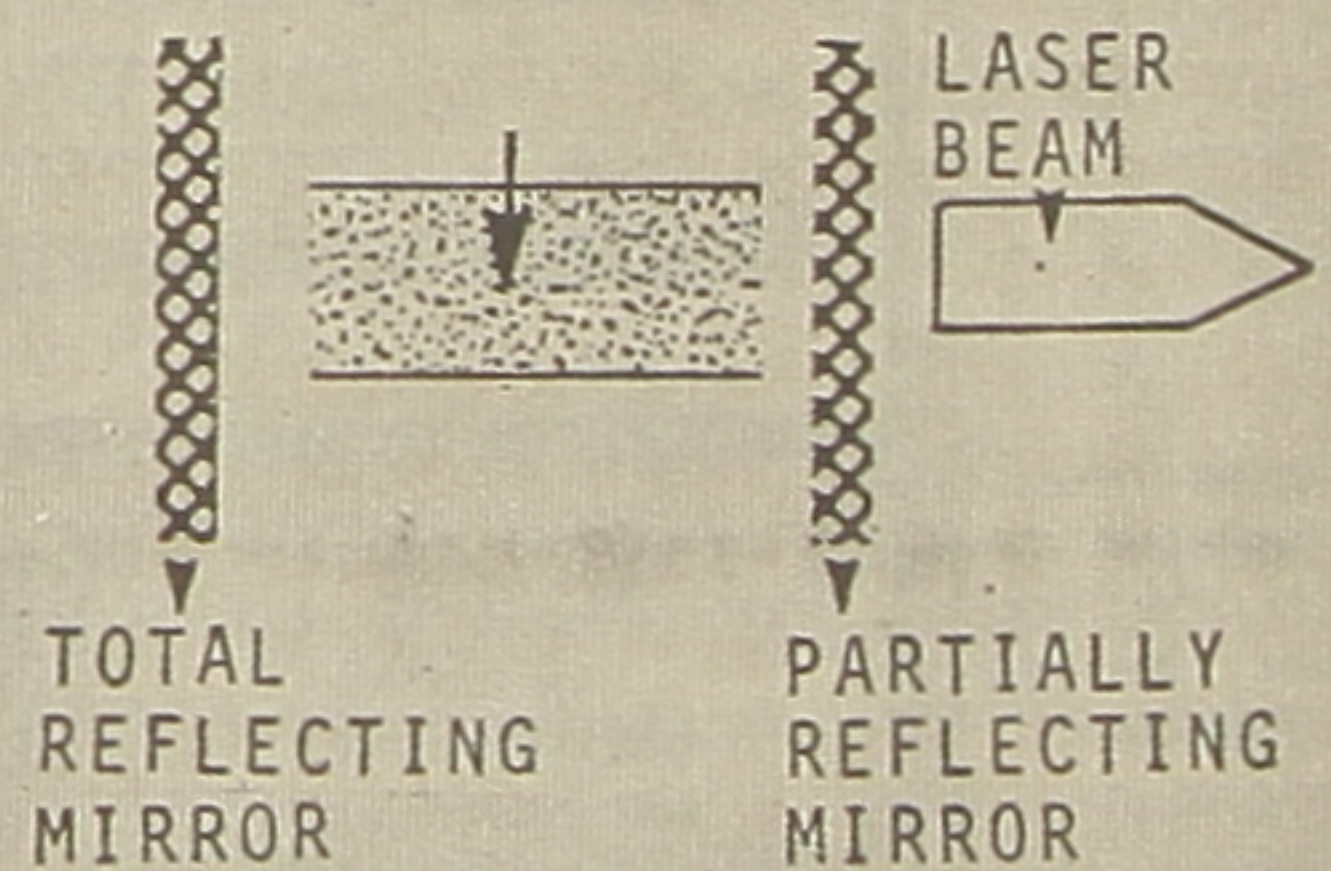
remove tracheal tumors, and perform other such tasks more efficiently than conventional methods with decreased blood loss and time of surgery. The CO2 laser system is limited because it cannot be shot through existing optical fibers or bodily fluids, unlike the Nd:YAG or argon systems.

The Neodymium-Yttrium-Aluminum-Garnet laser (Nd:YAG) is the newest and most powerful laser system to be developed for medicine. It may penetrate more deeply than the CO2 system, allowing unlimited possibilities in internal tasks that could be carried out. It can be transmitted through fiberoptics and clear bodily fluids. The YAG's one disadvantage, however, is the undiscernable extent of the blood's coagulation, requiring more experience and caution. Also, the YAG does not vaporize tissue like the CO2 laser. Tissues must be physically removed or allowed to slough off.

Both the YAG and the argon laser may be used with special dyes that "lase" when a beam is focused upon them, allowing precise work in tissues. Similarly, colored lasers can be used to react with pigmented tissues.

The use of laser systems has provided the medical community with an exciting new method of therapy, yielding ever-increasing alternatives in surgical undertakings.

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BASIC STRUCTURE OF
A SIMPLE LASER

IN THE ARTS

Coming
Events

Mo. Southern

Tryouts for
"The Real Inspector
Hound"
3 p.m. today
Taylor Auditorium

CAB movie
"Happy Birthday
To Me"
7:30 & 9:30 tonight
Barn Theatre

NEO Norse Star
Dance Drill Team
performing for
halftime
Friday night
at the
women and men's
basketball games

Joplin Community
Concert

John Alexander
leading tenor
3 p.m. Sunday,
Feb. 3
Taylor Auditorium

MULTI-CULTURAL
WEEK

Feb. 4-8
Ron Hudson

Spanish Classical
Guitarist
11 a.m., Monday, Feb.
4

Lion's Den in BSC

Chinese Magic
Revue
Friday, Feb. 8
Memorial Hall
Tickets \$6, \$4 Room
102, BSC

JOPLIN
Concert

John Conlee
Country and
Western Singer
8 p.m. Saturday, Feb.
9

Memorial Hall
Tickets: \$10.50

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Theatre

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Jan. 25-Saturday,
Feb. 9
Tulsa Performing Arts
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Tuesday-Saturday 8
p.m.
Sunday matinee 2
p.m.
Tickets: \$5-\$10
Call 918-747-9494

Tulsa Philharmonic
Isaac Stern, violinist
Wednesday, Feb. 6
at 8 p.m.
Chapman Music Hall
of the
Performing Arts
Tickets \$42, \$32, \$19

Dr. Charles Thelen,
asst. professor of
music; is attending
a prayer breakfast
with President
Reagan in
Washington, D.C.
today. Thelen was
invited to the
breakfast by
Congressman
Gene Taylor.

Arts Tempo

Southern musicians travel to Tan-Tar-A

Music majors from Missouri Southern were able to see their profession in action at the Music Educators National Convention at Tan-Tar-A Jan. 17.

Twenty-five students attended musical performances, lectures, and examined the latest musical merchandise including instruments, textbooks, and other aids used at all levels of teaching. Southern's students were awarded a plaque for most improved membership of a campus chapter from the Music Educators National Convention.

"We were competing against all state institutions," said Dr. Wayne Harrell, associate professor of music. "The award is significant because we are the smallest school in the state."

Joan Tune, a Southern music major from Diamond, was elected vice president of the state MENC chapter.

Central Plains Brass Quintet, formed in 1978 by Harrell and four other musicians, performed at the MENC convention and held a clinic following its performance.

"The unique thing about the

Quintet," said Harrell, "is that the members are all teachers. The work with the Quintet is outside of other activities."

Other members of the group include Steve Harry, director of instrumental music and music theory at Fort Scott Community College; Marilyn Gardener, supervisor and director of instrumental music at USD No. 447, Cherryvale, Kan.; Robert Kehle, assistant professor of lower brass and director of jazz studies at Pittsburg State University; and Thomas Mahan, currently attending Pittsburg State University to obtain a bachelor's degree in music education.

"We perform regularly at music clinics for students during the day, and do concerts at night," said Harrell. "The music is analyzed and graded, and how to use it in the schools is demonstrated and discussed."

Members of the group travel some 90 miles to practice on a regular basis. They have performed throughout the midwest for the public and various professional meetings, and have been selected to

do the music clinic for the MENC 50th anniversary convention.

Some 300 students from 20 high schools are expected to participate in the Midwest Conference Honors Band to be hosted by Southern music department today. Each school chooses its music students for the clinic. Band members work with Pete Havelly, band director, music to be presented at a concert that evening.

"West Coast Realism"

Exhibit features works of 22 west coast artists

"West Coast Realism," representing the work of 22 artists from Southern California, the San Francisco Bay area, and the Pacific Northwest, is showing in the Spiva Art Center at Missouri Southern until Tuesday, Feb. 19.

Painters on the west coast vary widely with regard to aspects of contemporary life they choose to portray, their painting methods, uses of photography, and references to allegorical meaning. Some work with local traditions, others reflect variety of the weather, light, geography, and life styles. In one way or another, these artists are part of the national revival of the realist style in recent years.

The Bay Area Figurative style has been brought to life by Paul Wonner. Several of his paintings, "Dutch Still Life with Primroses,"

"Still Life with Half Grapefruit," "Black and White Napkin," and "Basket of Plums" are on display at the center. Wonner was born in Tucson, Ariz., in 1920, and graduated from the University of California at Berkeley.

Joseph Raffael began his career as an artist in New York and then settled in the Bay area in 1969. His painting of "Orange Fish" shows the subject as a pleasant view of light, water, and nature. His painting, "A Secret Path," is also in the show.

Norman Lundin is known for his pastel and chalk drawings of interiors. He tries to recapture a particular light in the construction of his paintings. His "Studio Light on Floor" and "Studio Series No. 14" are included in this exhibit.

Douglas Bond and Connie

Jenkin are artists from Southern California included in the exhibit. Bond was born in Georgia and then settled in California in the late 1950's. He began working in photorealist style in the mid-1960's, painting from nostalgic period photos taken from magazine advertisements. He has two works in the show, "Aryan Notes," and "Untitled."

Jenkin uses a combination of airbrush and direct painting with brush techniques. She focuses her concerns on the suffering of children around the world and thinks of many of her paintings as quiet memorials to them. "Disappearing Balles," "In Memory," "Atlanta," and "We Shall Never Know Their Names" are in the exhibit.



Art exhibit One of several artworks on exhibit in "West Coast Realism"

CAB formulates various events

Several events are going to be presented this spring semester by Missouri Southern's Campus Activities Board.

Happy Birthday to Me, the second film in the CAB movie series, will be shown tonight at 7:30 and 9:30 in the Barn Theatre.

Ron Hudson, a classical Spanish guitarist, will present a concert at 11 a.m. Monday in the Lions' Den of the Billingsly Student Center.

Hudson's performance includes music from Bach to Paul Simon as well as traditional Spanish selections.

The Chinese Magic Revue of Taiwan, a company of dancers, acrobats, and magicians, will perform at 7:30 p.m. Friday, Feb. 8, at Memorial Hall. Reserve seat tickets are \$6 for general admission and \$4 with a full-time MSSC ID. The Magic Revue and the Hudson

concert are being presented in conjunction with Multi-Cultural Week at Southern.

Students interested in a trip to Daytona (Fla.) Beach during spring break may contact the Student Activities Office in Room 102 of the BSC. Total cost of the trip, including transportation, is \$12 without transportation, \$18. Students will leave March 8 and return March 17.

Bunuel creates surrealistic aura

'The Exterminating Angel' seventh film in 1984-85 series

The Exterminating Angel, a black comedy by the famous Spanish film director Luis Bunuel, will be shown at 7:30 p.m. Tuesday in the Connor Ballroom of the Billingsly Student Center.

The film is the seventh program in the current Film Festival presented by the Missouri Southern Film Society and is co-sponsored by

the Missouri Arts Council.

Bunuel made the film as an attack on affluent society. Eighteen wealthy and influential people attend an elegant dinner party and discover later that they cannot leave the room. They are confined to the room for days, eventually running out of food and water.

The glittering facade of the social existence falls apart in a nightmarish, surrealistic atmosphere created by Bunuel.

The film was awarded the Critics Prize at the 1962 Cannes Film Festival. Admission for the film is \$1.50 for adults and \$1 for senior citizens or students.

Alexander to perform Sunday

Metropolitan Opera singer made his debut in 1959 performance in 'La Traviata' culminated his success

Tenor John Alexander of the Metropolitan Opera will perform for a Joplin Community Concert at 3 p.m. Sunday in Taylor Auditorium at Missouri Southern.

Alexander made his debut in 1959 with the New York City Opera. His performance as Alfredo in *La Traviata* established him as a major new voice on the music scene.

The Mississippi-born artist has performed with notable soprano singers such as Joan Sutherland, Beverly Sills, and Montserrat Cabellé. In 1965 Joan Sutherland invited him to sing Pollione, a character in the opera *Norma*, on

her Australian tour.

Alexander is the first American-born tenor to establish an international reputation for his interpretation of the 19th century bel canto roles, which are identified with Italian artists. Since his 1961 debut in Metropolitan Opera in New York, he has performed in almost 30 different operettas.

During his 1984-85 season, Alexander will be at the Opera Company of Boston for a title role in *The Tales of Hoffman* with Sarah Caldwell conducting.

Alexander was born in Mississippi and has been an opera singer for over 25 years. Before his music

career began, he had completed three years of pre-medical studies at Duke University and then joined the U.S. Air Force. After discharge, Alexander gave up a medical career and enrolled at the Cincinnati Conservatory of Music. In 1952, Alexander made his professional debut in the title role of Gounod's *Faust* with the Cincinnati Zoo Opera.

In the fall of 1974 he was appointed distinguished Professor of Voice and Opera at his alma mater.

Admission for the concert is Missouri Southern ID or Community Concert ticket.

Theatre department prepares for play

'The Great Cross-Country Race' production begins March 2

Animal characters in costumes characterizing occupations and humans speaking Spanish are novel aspects of Missouri Southern's theatre department's production of *The Great Cross-Country Race*.

The play, based on the story of *The Tortoise and the Hare*, begins with the animals planning a fair.

"The basic concept of the play is that the humans and the animals don't understand each other," said

Joyce Bowman, assistant professor of theatre. "Only the dog understands both the humans and the animals."

Human characters will be speaking Spanish, translated phonetically by Dr. Carmen Carney, associate professor of foreign language, so the elementary school audiences will understand. Performances will be March 2 and 3.

Auditions for *The Real Inspector*

Hound, the second production planned for the spring semester, will be held at 3 p.m. Wednesday and Thursday, Feb. 6 and 7, Taylor Auditorium.

"Auditions are not limited to theatre students," Bowman said. "Students and faculty from all are encouraged to participate. Attendance at all rehearsals is always required."

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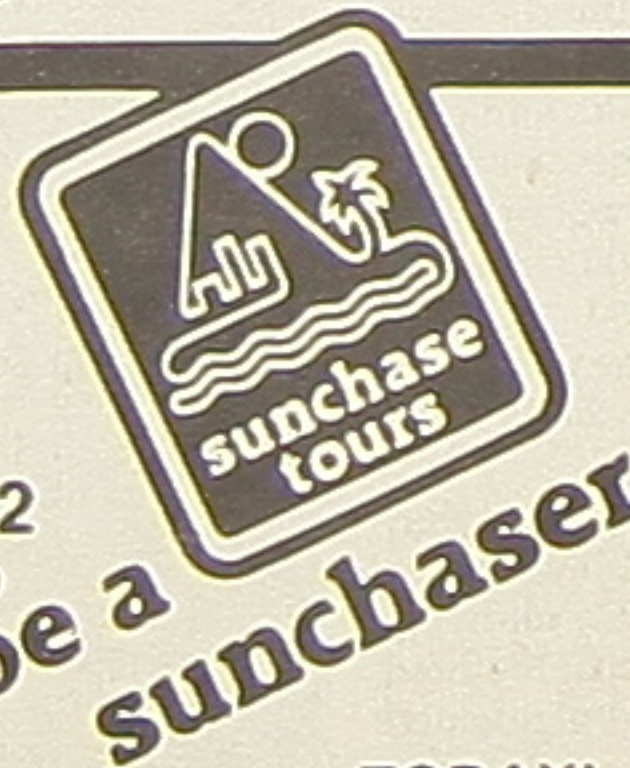
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Southern Faces

'God has no other hands,' Kassab quotes St. Teresa

Automobile accident initiates interest in nursing; head nurse finds compassion fundamental quality

By Tammy Coleman
Features Editor

"God has no other hands but our hands," Maridan Kassab said, quoting St. Teresa.

Kassab, head nurse of orthopedics at St. John's Regional Medical Center, bases her nursing career on this. According to Kassab, God works through the hands of nurses and doctors to perform healing.

"That's the way I feel," she said.

Kassab's interest in nursing stemmed from her daughter Ann's automobile accident. According to Kassab, Ann received extensive injuries in the accident.

"I watched and admired the nursing she received and decided it would be nice to be able to do that," said Kassab. "The two-year program offered by Missouri Southern proved inviting."

The department that Kassab works in, Orthopedics, deals with bones. The common patients she receives are persons who have been in accidents or older persons who have fallen and broken bones.

"It is rewarding to have what we call 'crunch cases' come in, and you think this one will never make it," she said. "Slowly but surely you see a beautiful body begin to heal under great medical minds and great nursing care."

Kassab feels the nursing profession is important for the patients, and a person who is in nursing simply for the money will not be a good nurse.

She feels that compassion is the most

important quality a nurse must possess.

"Compassion will override your exhaustion when you are tired," she said, "and your irritability when someone has rang the buzzer for the 20th time."

"Little things matter such as a patient with a cold cup of coffee, and, on the other hand, big things like the compassion to find an abused child a home."

Kassab has returned to Southern to participate in the newly offered bachelor of science degree in nursing program. The program began in the fall, with the first graduating class anticipated in the spring of 1986.

Kassab enjoys going to school. She attends evening classes after working during the day in the hospital. She believes an advantage to the program is the persons, both the instructors and the classmates.

"The educators or instructors are excellent, both academically and clinically," she said. "They are also professionally respected."

She refers to her classmates as "neat" persons to share experiences with.

"You learn as much from each other as you do from the instructors," she said.

One of the things about the nursing school and her profession that Kassab expresses is that it is hard and takes discipline.

"There is always so much to learn," she said. "You get into the middle of it and think 'what am I doing here?' and in the end it is all worth it. It kind of whets your

appetite to do a little more."

Kassab is in charge of the nurses in her department and therefore does the hiring. In hiring she looks for what she terms as good nurses, a nurse who can get to know her patient.

"I lean toward people—people as opposed to task-oriented people," she said. "I like to hear beyond what the patient's situation is. I like to know the patient. When it is there you can almost taste it, when it isn't it's just blatant."

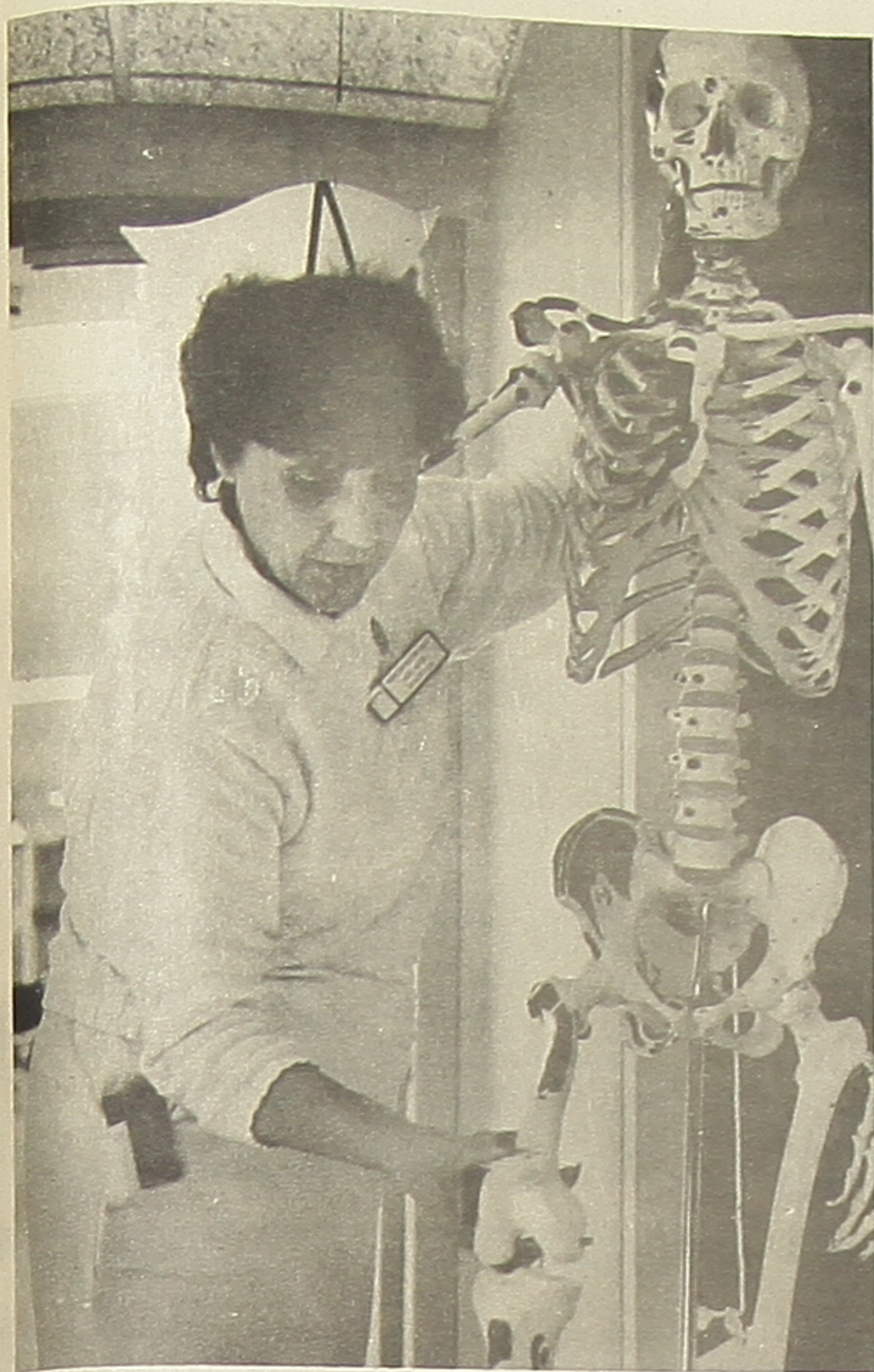
The traditional nurse answer to doctor role is no longer popular, according to Kassab.

"Some doctors have a very simple idea of doctor/nurse roles," she said. "Lately I have noticed that they are more appreciative of good nurses. Doctors really work with them because they have proved themselves. Nurses are now more educated and more of a team member."

Kassab is pleased with the decision she made to become a nurse, and feels her job is a fulfilling one. She feels that a person who has the opportunity to become a nurse is a "lucky" person.

"Nurses are lucky," she said. "They are able to be there when people need them, when they need compassion, when they need care, when they need someone to get involved."

"Besides," she said, "it's one of the few professions that you can wear comfortable shoes and still be in style."



Orthopedics Maridan Kassab is shown with a model human skeleton at St. John's Regional Medical Center. (Chart photo by Barb Fullerton)

Money did not influence Davis

Ex-funeral director would rather help than bury people

By Tammy Coleman
Features Editor

When Joe Davis decided to go into nursing as a career, he never looked at the financial rewards it offered; he just wanted to help persons.

"I love people," he said. "I'm a people person and I get to deal with a cross section of people."

Davis, director of OR services at St. John's Regional Medical Center, received an associate degree of nursing from Missouri Southern.

Prior to becoming a nurse, he worked as a funeral director in southeast Missouri. According to Davis, the emergency room of the small local hospital was equipped with only one nurse. Since he drove the ambulance he was often required to work with patients until she could get to them.

"I decided if I had to do nursing anyway, I should learn to do it right," said

Davis. "I figured it would be more fun saving them than burying them."

Davis chose to go to Southern because his wife, Eva, received her nursing degree from the College. He feels that because they are nurses, it has helped them each to understand the time demand placed on the other.

In the position that Davis holds, he is basically responsible for running the operating room, outpatient surgery, the recovery room, and the G.I. laboratory. He is also required to help keep peace between the doctors and the hospital. He refers to himself as the "problem solver."

"I work very closely with physicians who do not work for the hospital," he said. "I must keep peace between the people who own the hospital, people who are there but don't work there (the physicians), and the employees."

Davis feels he really gets to know the physicians by working with them in the

capacity that he does. He sees persons at their best and at their worst—doing commendable things and then acting under stress.

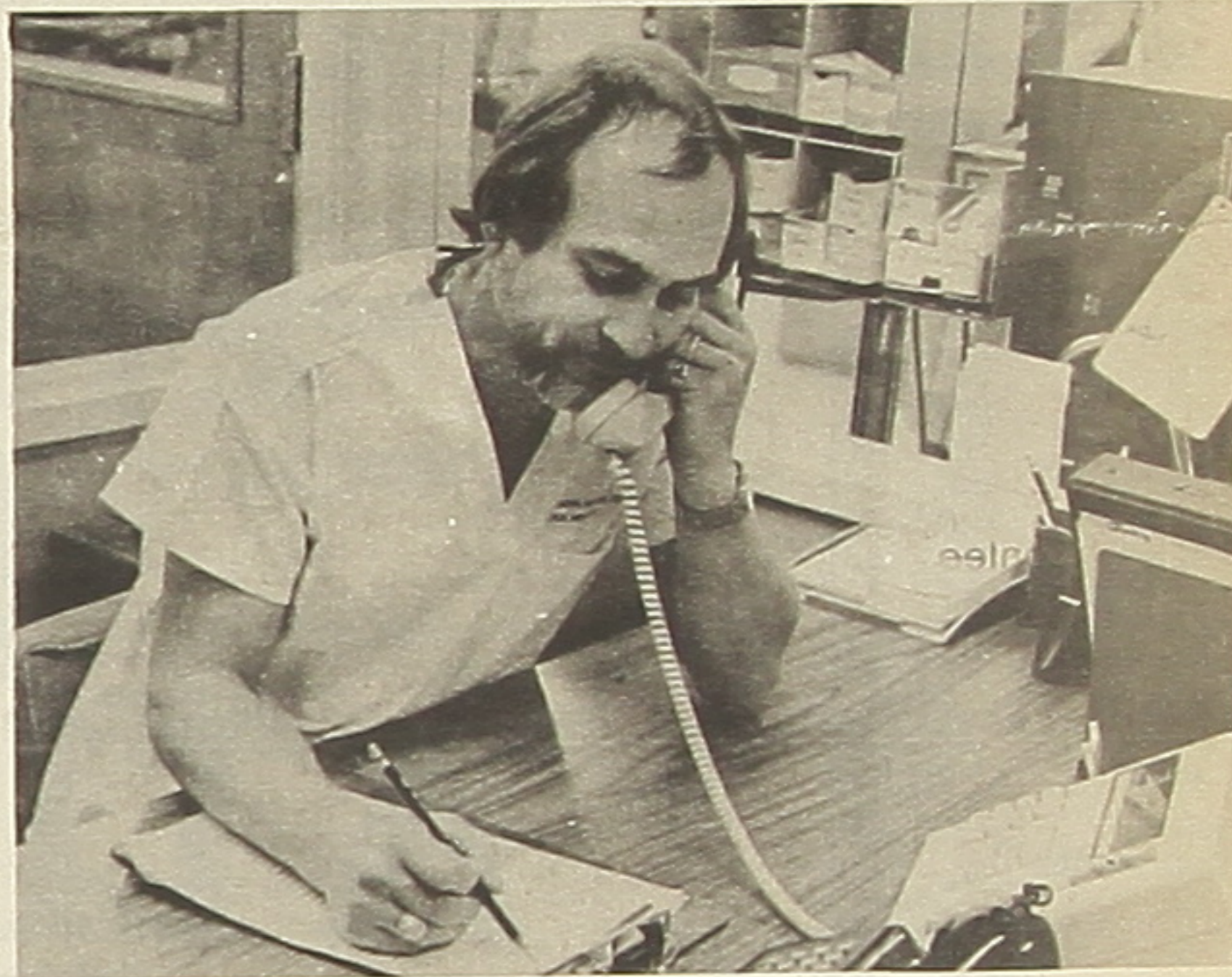
"I see the physicians when they are different than they are when they are out in the public," he said. "Behind the doors their public is asleep."

Davis also has his own staff of nurses. He hires many Southern graduates, and seemed impressed with their work.

"They are ready to be nurses when they come out of the program," said Davis. "You don't have to train them."

"So many people anymore tend to teach nurses how to be nursing managers and they don't get that much hands-on experience," said Davis. "They are expected to get the clinical experience after they go to work."

Southern has a unique blend of clinical and educational instruction, according to Davis.



Joe Davis conducts business at his desk.

Manley runs Nuero-ICU at St. John's

"Every day is a challenge. You never quite know what is going to happen throughout your shift," said Dennis Manley, head nurse of the Nuero Intensive Care Unit at St. John's Regional Medical Center.

Manley began working as an orderly to help him through college and because he enjoyed it, he ended up changing his major to nursing. Manley received an associate degree from Missouri Southern.

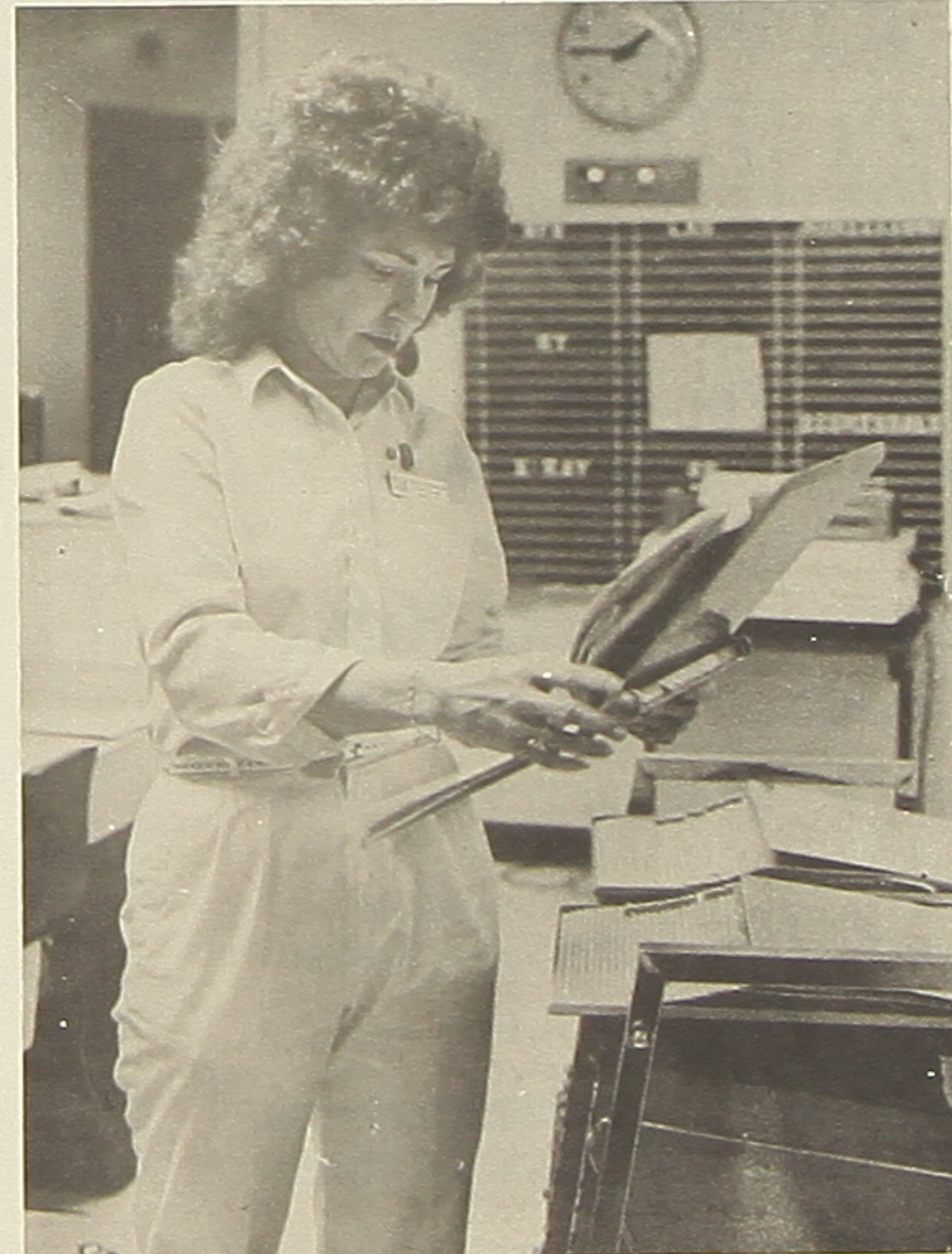
"I really had an advantage from going to Southern," he said. "They really have an excellent program there."

According to Manley, a nurse is partially going to school all the time. Nurses must also continue to learn throughout their career.

"Your education as a nurse begins when you start schooling," he said. "That education is built upon as you begin working. I feel I received a confident education from Southern as a base and it's a constant endeavor to keep up with the changes in the medical field."

Manley feels the instructors of Southern's program are knowledgeable in theory and application.

"They know what they are doing and they know how to teach you the proper ways in caring for patients," he said. "They teach you the realistic part of nursing."



Nursing

Paula Johnson feels although nursing requires hard work, the self-actualization it gives is worth more. (Chart photo by Barb Fullerton).

'Typical housewife' returns to obtain nursing degree

Paula Johnson now directs unit in hospital

By Keri James
Staff Writer

Being a high school dropout did not keep Paula Johnson, a 1978 graduate of the nursing program at Missouri Southern, from realizing her dream.

"I was your typical housewife," Johnson said. "I finally decided that after 16 years of it I wanted to continue my education."

After successfully completing her G.E.D., she attended Franklin Technical School, becoming a nurse's aide.

"I worked at St. John's [Regional Medical Center] in the obstetrics unit up until they merged the unit with Freeman Hospital," she said.

It was at this time she decided to return to college to become a registered nurse.

"During my work experience at St. John's, I was exposed to nurses who had attended all the local schools," she said. "I chose Missouri Southern over three other nearby schools because I was really impressed with the quality of the instructors and students."

The three schools she referred to were Franklin Technical School, Pittsburg State University, and Northeastern Oklahoma A&M.

Johnson said she was considerably older than most of the other students in the nursing program when she was enrolled.

"They [the other students] always said that I made better grades than them because I was married and had a family," she said. "The real fact of the matter was that I had to prove it to myself that I could do it, so I did."

Johnson received her associate degree at age 34.

"It was the most unbelievable moment of my life," she said. "Now if I go on to get my master's degree, just think how old I'll be then."

Johnson, who had continued working in the obstetrics unit at Freeman during her two-year stint in college, was promoted to nurse manager of a 29-bed diagnostic medical unit in April 1983.

"The diagnostic unit is where patients come to be diagnosed and treated," Johnson said. "If a patient requires surgery, we prepare them for it here and then send them to the surgical unit."

Some of Johnson's responsibilities include hiring new personnel. She is impressed by the quality of the nursing students produced by Southern.

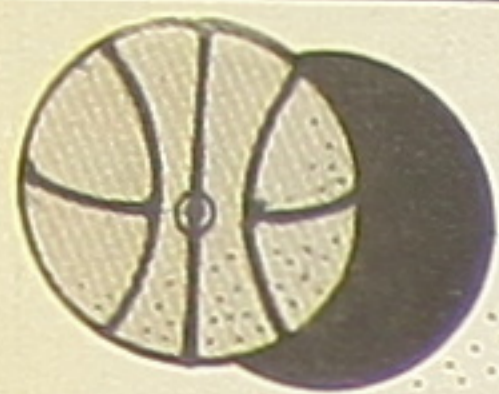
"I still recommend Southern to many of my friends and associates," she said. "Especially when they are thinking of entering the nursing field."

Johnson might be college-bound again next fall.

"I have applied for application to the nursing program this fall," she said. "I really feel that I need to obtain my bachelor's degree, maybe even my masters."

Continuing education in whatever way she can is important to her.

"The medical field is expanding so greatly that I feel that I have to grow with it or be left behind," Johnson said. "Besides, how could I really work with younger nurses who know more than I do?"



Statistics

(Does not include
Tulsa victory)

**Lady Lions
Basketball
(14-1 record)
(9-0 district)
(4-1 CSIC)
(8-0 home)
(6-1 away)
(0-0 neutral)**

Player	TP	Avg.
Fly	235	15.7
Sutton	217	14.5
Womack	207	13.8
Rank	155	10.3
Wilson	112	7.5
Kliche	103	7.4
Evans	103	6.9
Klenke	72	4.8
Gilmore	17	2.4
Cantrell	11	1.6
Wittrig	4	1.0
Murphy	9	0.9
Main	2	0.4
Schmidt	2	0.4
Team	83.3	
Opponents	61.9	

Statistics (Up-to-date)

**Lions
Basketball
(6-12 record)
(3-4 district)
(2-4 CSIC)
(5-3 home)
(0-7 away)
(1-2 neutral)**

Player	TP	Avg.
Garton	418	23.2
Parks	239	13.3
Ward	172	9.6
Greene	115	6.4
Taylor	110	6.1
Peltier	59	3.3
Starkweather	54	3.0
Harris	13	2.8
Frencken	23	2.1
Foster	5	1.7
Gillon	18	1.1
Dennis	0	0.0
Team	68.1	
Opponents	69.3	



Intramurals

Basketball (Monday's Results)

Hoop Queens 48,
No Names 28
Unavailables 43,
Clueless 34
Dog Heads 77,
Patriots 55
Five Easy Pieces 64,
Bronzal Brothers 43
Richard & Gonads 50,
Hoop Busters 33
City Boys 70,
Lymph Nodes 30

(Tuesday's Results)

Playground Stars 91,
Silver Bullets 58
Hoopers 62,
Bad Boys 58
Ramblin' Guys over
Warriors (forfeit)
Taco Kids 79,
Soccer Team 19
Rim Bangers 53,
Streakers 52
Moilla & One 48,
Losers 45

The Sports Scene

Women win three

Wayne State, Missouri Western next

The eighth-ranked Lady Lions increased their record to 4-1 in CSIC action and 15-1 overall by beating Emporia State and Washburn University last weekend and by defeating the University of Tulsa Tuesday night in non-conference action.

Southern's Margaret Womack had a career high to carry her team to a 70-56 victory over TU.

Four players scored in double figures as Southern outlasted Emporia 77-66.

Junior point guard Becky Fly scored 22 points while junior forward/center Suzanne Sutton grabbed a season high 17 rebounds.

Fly is third in field goal percentage with a .546 and Sutton is third in rebounding and assists with 9.2 and 3.8 in the latest CSIC poll. Both are also topping the list in scoring.

Sutton had a strong performance, scoring 14 points with five assists and three steals.

Freshman Anita Rank came off the bench to score 11 points, while Womack added 10 points.

The Lady Lions' rebounding was the only thing keeping them in the game Friday night. Southern only hit 29 of 73 attempts for a 39.7 percentage.

Emporia led in the first few minutes, but Southern came on to take the lead for good with a half-time score of 37-29.

The Lady Lions overcame foul

trouble to rally to a victory over Washburn University, 86-64, in CSIC action.

Junior guard LaDonna Wilson played an aggressive game, scoring 16 points with a team high of nine rebounds and one blocked shot.

Fly scored 17 points, Womack had 16 points, and Rank coming off the bench in the second half to score 14 points.

Southern was in foul trouble in the first half with 15 fouls—with three each by Sutton and junior Dawn Kliche.

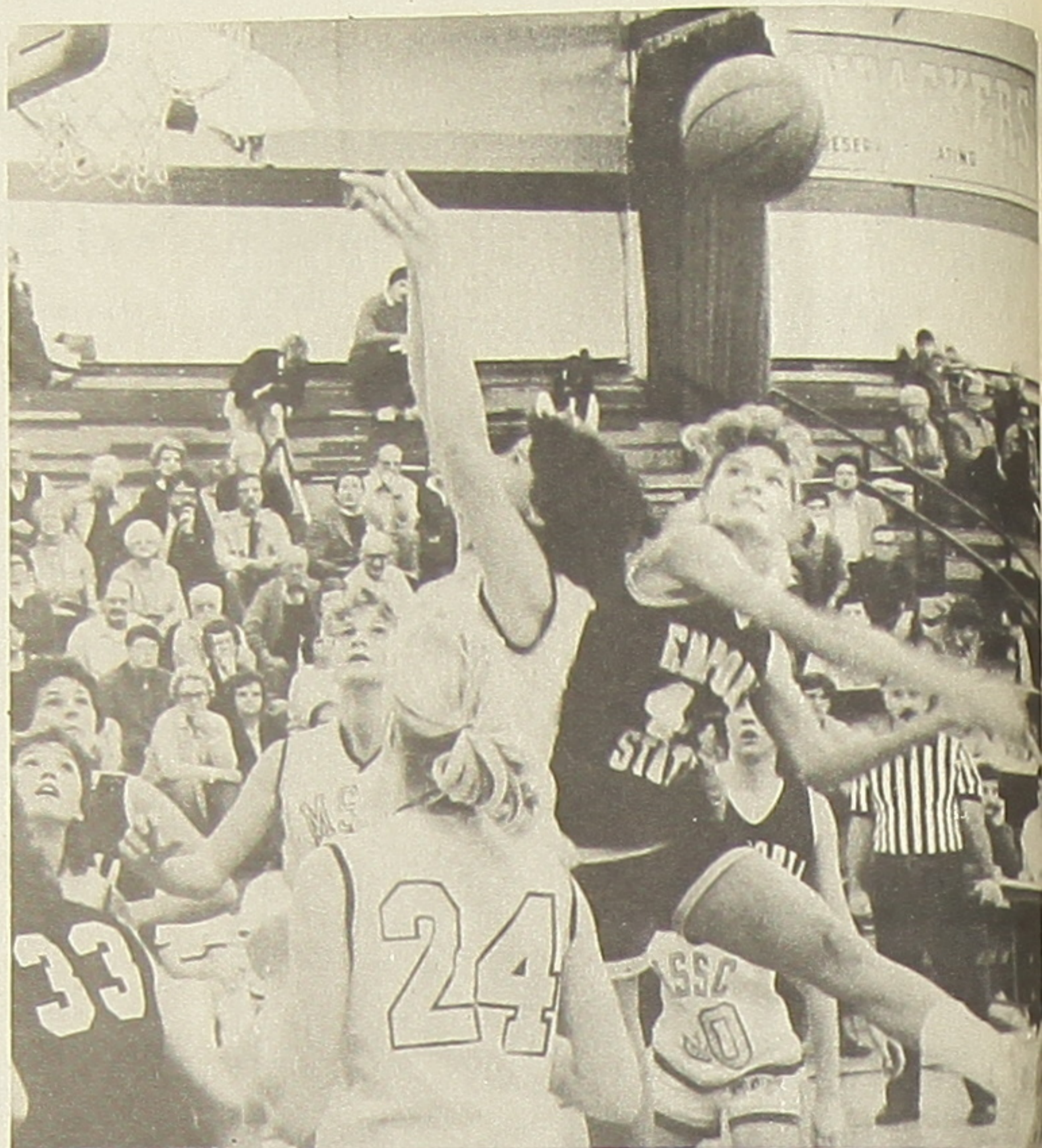
Southern's largest lead was 24 with 5:30 left and the score 73-49. Southern hit 19 of 33 shots in the second half, finishing with a 47.1 percentage. Washburn was 24 of 61 with a 39.3 percentage.

The Lady Lions had a 42-37 edge on the boards with Wilson's nine rebounds. Sutton had seven while Womack and Rank each grabbed six.

The Lady Lions play host to Wayne State College tomorrow and then to one of their strongest rivals, Missouri Western State College, Saturday.

Missouri Western beat Southern twice last year. The Lady Lions were eliminated by the Lady Griffons in the finals of the NAIA District 16 tournament.

Action starts at 5:30 p.m., each day, with the men's games to follow.



Block!

Margaret Womack has a shot blocked as the Lady Lions defeat Emporia State 77-66. (Chart photo by Daphne Massey)

Soccer team adds four newcomers, veteran for fall

Soccer Coach Hal Bodon has added five newcomers to the 1985 squad.

Bodon welcomed two incoming freshman and three junior transfers, including one who returns to the Lions' squad following a two-year absence.

A familiar face is fullback Scott Poertner from Sedalia, Mo. He is returning after spending two years

at the University of Missouri-Columbia.

As a sophomore, Poertner was a first team all-district selection for the Lions and was also voted by his teammates as the squad's MVP on defense.

The 5-foot-5, 165-pounder started in all 37 games as a freshman and sophomore at Southern. Poertner will be a junior

in eligibility for the Lions.

Other college transfers include forward/midfielder James Braden from Sedalia.

Braden, 5-6, 140 pounds, is a transfer from the University of Alabama-Birmingham, an NCAA Division I school. He will be a junior in eligibility along with forward Andy Christensen, a 5-11, 150-pound transfer from the

University of Nebraska-Omaha.

Christensen is the older brother of current Lions' player Mark Christensen.

Another forward/midfielder from Sedalia is freshman Shawn McCue, 5-8, 160 pounds, who was an all-state selection for his high school and was selected as the squad's outstanding midfielder after leading the team in assists.

Kevin Schneider, 5-10, 166 pounds, is a midfielder from St. Louis Lutheran High School. The college freshman played for two of the top youth teams in St. Louis and led his team in scoring as a freshman.

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Basketball intramurals commence

Basketball intramurals began Monday with 12 advanced men's teams, eight recreational men's teams and four women's teams.

Carl Cromer, director of intramural activities, said there has been a large turnout of students to participate in the games.

The games are played Monday through Thursday, and the basketball program will last for about one month.

The women's championship game will be played at 6:15 p.m. Monday, Feb. 11. The men's championship games will be announced at a later date.

Eleven players join Southern

Coach Jim Frazier welcomed 11 new football players, including seven junior college transfers, to Missouri Southern at a squad meeting last week.

Four-year college transfers include outside linebacker/defensive tackle Ralph Connor (6-foot-3, 215 pounds) from Iowa State University, running back Greg Dageford (6-0, 190) from Kansas State University, offensive tackle Al Kien (6-6, 280) from the University of Minnesota, quarterback Gary Kulwicki (6-2, 180) from Mesa College of Grand Junction, Colo.

Junior college transfers include Todd and Troy Ketchum from Hutchinson (Kan.) Junior College. Both are 6-4, 230-pound twins. Todd is a tight end and Troy will be a candidate for a defensive tackle position this spring.

Other juco transfers include quarterback Ray Hamilton (6-4, 185) from Independence (Kan.) Junior College, wide receiver Danny Lynn (6-1, 175) from Mesa (Ariz.) Community College, defensive back Sam Payne (6-2, 205) from Illinois Valley Community College, defensive tackle Greg Persley (6-2, 235) from Mesa Community College, and defensive tackle Zeke Wintjen (6-2, 225) from Coffeyville (Kan.) Community College.

4 receive academic recognition

The NAIA Division I Academic All-American team was named last week with four members of the Lions football team being selected.

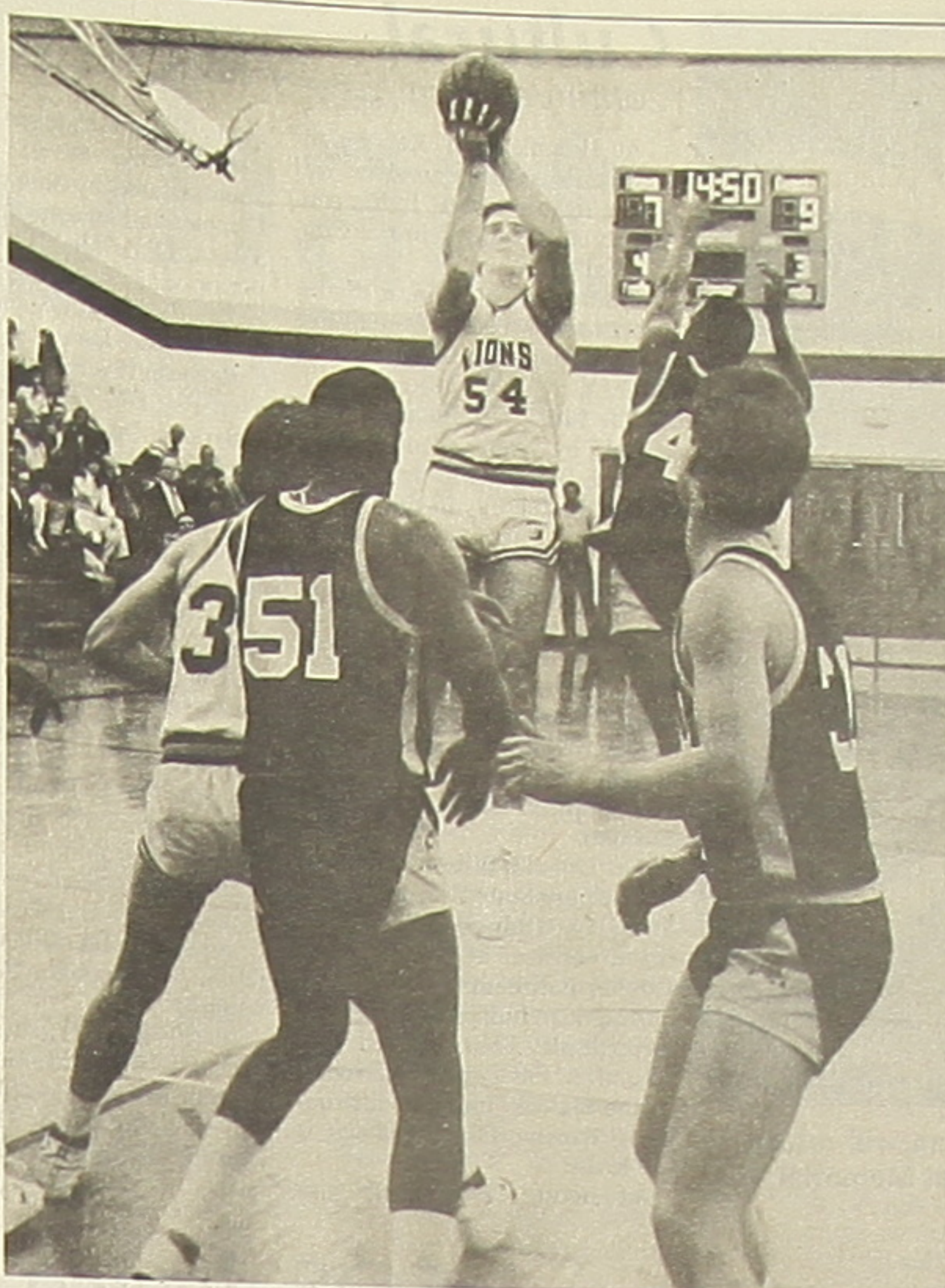
Defensive back Mike Testman of Nevada, Mo., topped the list with a 4.0 grade point average in accounting and pre-law. The 6-foot-2, 180-pound junior had the highest GPA of the 30-member Academic All-American team.

Other players named to the team from Southern are junior linebacker Steve Forsberg, who has a 3.53 GPA in accounting, senior tight end Darin McClure, who has a 3.29 GPA in criminal justice, and sophomore offensive lineman Paul Burgess, who has a 3.03 GPA in accounting.

Team players were selected for both divisions of the NAIA by a special committee of the Football Coaches Association. Qualifications for nominees include being a starter during the 1984 season and having a grade point average of 3.00 or better on a 4.00 scale.

Freshman were not eligible for consideration and transfers were not eligible unless they had completed one full year at their present school.

Missouri Southern had the most representatives on the Academic All-American team, while four other CSIC members had representatives on the squad.



Goes for two Brian Peltier shoots for two against Emporia. (Chart photo by Daphne Massa)

Being student athlete is major accomplishment

Peltier adds Who's Who to list of achievements

One of Brian Peltier's major accomplishments is being a student and an athlete.

Peltier, a senior, received the Who's Who Award in 1984 for his achievements as a "student athlete."

The 6-foot-7, 220-pound center/forward plans to graduate in May with a bachelor's degree in marketing and management, and a minor in computer science.

The native of Wilmot, Wis., has played basketball with Southern for three years. Before arriving at Southern, Peltier attended Milton (Wis.) College. When the school was forced to close because of financial difficulties, Peltier was offered a scholarship to Southern.

Peltier graduated from Wilmot (Wis.) High School, where he started all four years in basketball. He ran long distances in track where he was able to carry his team to several victories. He also played Babe Ruth baseball and American Legion baseball during the summer.

Among his basketball awards in high school are all-conference for three years; all-star for three years of the *Milwaukee Journal*; most valuable player in conference action his senior year; and all-star state team his senior year.

Being far away from home is not a difficult problem for Peltier.

"I like the atmosphere; it is a good chance to travel," he said. "My parents come down before Christmas to watch me play and I go home for Christmas break."

The senior feels that being away from home has enabled him to mature, which has helped him on and off the court.

Peltier's goals are to become an All-American athlete and to do well in school. He currently has a 3.47 GPA.

His team goals are for the Lions to make the NAIA District 16 playoffs and have a winning record. He feels they will succeed if they stick together and keep pushing.

"Keep a good attitude, help the younger players to push themselves, and help them to be as good as they can be," are some of the responsibilities Peltier sees as a senior player.

Peltier feels Southern is a good school with a personal touch, and said he will always remember his experiences on the court.

"Coming down here has been a good experience for me," he said. "Things that I have learned on the court will probably stay with me longer than things I have learned in the classroom."

After graduating in May he plans to look into job prospects in Illinois and in Springfield, Mo.

Split decision over weekend ends eight game losing streak

Playing this weekend against two top teams in the conference, the Missouri Southern Lions had a split decision beating Emporia State, 85-76, and losing to Washburn State University, 69-66.

Winning against the Emporia State Hornets snapped Southern's eight game losing streak.

The Lions controlled the opening tip in Southern's Greg Garton led his team in scoring with 33 points, boosting his 23.3 average. Garton scored 22 points in the first half, while leading the team in rebounds with 11.

Senior James Parks, 12.2 avg. and second in scoring, added 25 points while James Ward and Jeff Greene grabbed for 10 and 8 rebounds, respectively.

Although the opposing Hornets led at half-time 37-33 the Lions' Parks, Garton and Greene rallied to give Southern a 47-43 lead.

The Lions biggest lead, 82-72, came with 22 seconds left in the game, was sparked by Park's pass to Garton for a stuff, and Jamey Gillion's 18-footer that put the Lions in the lead for good.

Southern lead in rebound advantage with a 57-40 victory on the boards.

Southern pressed the Ichabods from

Washburn University to the last seconds of the game, but could not defeat one of the top CSIC teams.

Coming off the bench, senior James Ward was able to score 19 points. Parks also scored 19 points while Garton added 12 points.

The opposing Washburn led thru most of the second half building a 58-50 advantage, but the Lions came back with the help of Parks and Ward to tie the score for the fourth time at 62-all with 4:20 left in the game on Park's soft lay-up following his steal.

Garton, the second leading scorer in

the conference, put the Lions ahead for the last time, 64-62. The Ichabods scored the next five points to gain the lead.

Brian Peltier's tip in at 0:26 pulled the Lions within one, but opposing team member Dennis Brady layed-up one to secure the Hornets lead.

Earlier in the week, the Lions lost to the NAIA District 16 rival Drury College, 65-55, in a close game. The home game action, which was the first since December 8, was rescheduled due to a snowstorm.

Coach Chuck Williams looks back on

Drury's game, "A big factor was the opening, Drury came out aggressive, and our month lay-off was a problem."

Coach Williams also stated, "A key part of the ball game was the second half, they (Drury) scored the first ten points of the second half."

Garton totaled up enough points in Emporia's game to become the third all-time leading scorer in Missouri Southern State College's basketball history. Garton, junior, has now outscored All-American Russell Bland, who scored 1,271 points from 1976-78.

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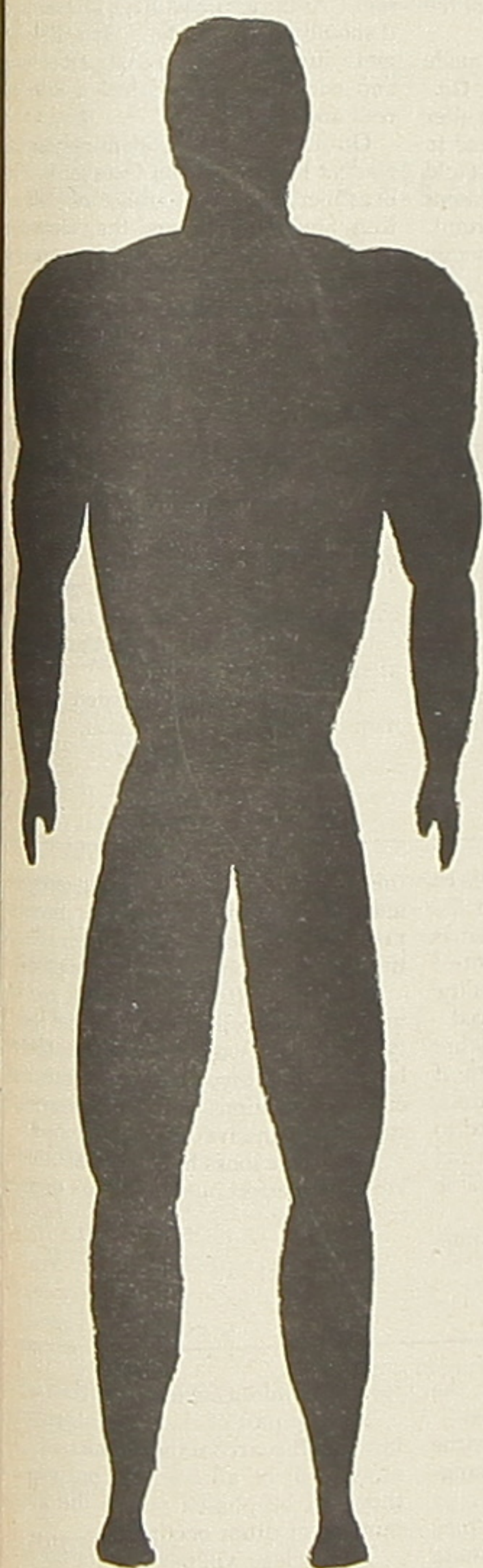
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OFFER EXPIRES FEB. 15



MSTV

Continued from page 3

afternoon hours with telecourses and other productions. Missouri Southern Television begins local programming when The Learning Channel goes off the air.

Following is the current schedule of programs on MSTV:

Mondays:
5 a.m.-6:30 p.m.: The Learning Channel
6:30 p.m.: "Introduction to Data Processing," an Missouri Southern telecourse.
7 p.m.: "Focus on the Arts." Hostess Carla Powers visits with area artists.
7:30 p.m.: Literature/Humanities. A series of programs involving literature and humanities.
8:30 p.m.: "Writing for Fun and Profit." Host John Hinnah visits with area writers.
9 p.m.: Public Affairs Programming. Delayed broadcast of the Joplin City Council meeting.
10:30 p.m.: "Computers at Work."

Tuesdays:
5 a.m.-6 p.m.: The Learning Channel
6 p.m.: "The Money Puzzle," a Missouri Southern telecourse.
6:30 p.m.: "Faces of Culture," a Missouri Southern telecourse.
7:30 p.m.: "Southern's Specials." Host Martin Oetting interviews students at Missouri Southern.
8 p.m.: "Southern Perspective." Rotating hosts interview those persons who have played a role in developing Missouri Southern.
9 p.m.: "A Place Called School." The department of education at Missouri Southern examines public schools.
10 p.m.: "Introduction to Data Processing." A Missouri Southern telecourse.
10:30 p.m.: "The Money Puzzle." A repeat broadcast of the day's lesson.

Wednesdays:
5 a.m.-6:30 p.m.: The Learning Channel
6:30 p.m.: "Introduction to Data Processing," the week's second lesson.
7 p.m.: "The Criminal Justice System and You," produced by the criminal justice administration department at Missouri Southern. Examines key issues in law enforcement.
8 p.m.: "The Newsmakers." Host Tim Dry interviews persons in the news.
9 p.m.: Broadcasts from intercultural networks
10 p.m.: Literature. A special series weekly of films about literature.

Thursdays:
5 a.m.-6 p.m.: The Learning Channel
6 p.m.: "The Money Puzzle," the week's second lesson.
6:30 p.m.: "Faces of Culture," the week's second lesson.
7:30 p.m.: "Inside Sports." Host Dave Griffith interviews persons in the world of sports.
8 p.m.: "Southern Perspective."
9 p.m.: "The Musicians." Host Steve Stewart introduces area musicians.
10 p.m.: "Introduction to Data Processing," a repeat of the previous day's lessons.
10:30 p.m.: "The Money Puzzle," repeat of the day's lesson.

Fridays:
5 a.m.-3 p.m.: The Learning Channel
3 p.m.: "The Newsmakers," repeat broadcasts of last semester.
4 p.m.: "Focus on the Arts," repeat broadcasts from last semester.
5 p.m.: "The Futurists." Competition among teams from area high schools.
6:30 p.m.: "Introduction to Data Processing," the week's third lesson.
7 p.m.: "Southern Today." Host Daphne Massa interviews administrators at Missouri Southern.
8 p.m.: "On the Move." Host Jim Jackson interviews area civic leaders.
8:30 p.m.: "Knowing Your City Government." Host Frank Meyers, assistant city manager, interviews city officials.
9 p.m.: The Humanities.
10 p.m.: "Introduction to Data Processing," a repeat of the day's lesson.

Saturdays:
5 a.m.-3 p.m.: The Learning Channel.
3 p.m.: "The Musicians." Shows from the first season.
4 p.m.: "The Criminal Justice System and You." Repeat broadcasts from last semester.
5 p.m.: "Focus on the Arts," repeat broadcast of Monday's program.
5:30 p.m.: "Writing for Fun and Profit," repeat broadcast of Monday's program.
6 p.m.: "Faces of Culture," repeat of Tuesday night's broadcast.
7 p.m.: Science, a series of films about the sciences.
8 p.m.: "Southern Perspective," a repeat of Tuesday night's broadcast.
9 p.m.: Literature.

Sundays:
5 a.m.-3 p.m.: The Learning Channel
3 p.m.: "A Place Called School," repeat broadcast from last semester.
4 p.m.: "Southern Today," a repeat of Friday night's broadcast.
5 p.m.: "The Money Puzzle," a repeat of the week's first lesson.
5:30 p.m.: "The Money Puzzle," a repeat of the week's second lesson.
6 p.m.: "Faces of Culture," repeat of Thursday night's program.
7 p.m.: Music and Documentaries, a repeat of Friday night's 9 p.m. broadcasts.
8 p.m.: "Southern Perspective," a repeat of Thursday night's broadcast.
9 p.m.: The Arts, a repeat of Monday night's broadcasts.

Massa said several other programs were being developed, including "Understanding the Handicapped," which will include interviews with handicapped persons and those who work with the handicapped, "Model Railroad in the Four-State Area," a feature look at area model railroads and the persons who built them, and a documentary series on mining



The Chinese Magic Circus of Taiwan will return on Friday, Feb. 8, for a performance at Memorial Hall.

CBHE

Continued from page 3

strengths, with particular attention to reducing the number of graduate programs. The plan should also include how the Board of Regents will continue to assist in the economic development needs of southeast Missouri, particularly in the Bootheel region," said Aery.

The Regents of Southwest Missouri State University have been asked to submit in September 1985 a plan that outlines their academic priorities, in what ways programs are to be strengthened, and in achieving these priorities how funds will be reallocated.

Regents from both Northwest Missouri State University and Missouri Western State College will be identifying and addressing cooperatively the needs of the citizens of northwest Missouri concerning higher education.

They have been asked to "submit a specific plan to share programs and services, eliminate and or reduce duplication, and reallocation of resources plan within each institution to achieve quality programs distinct to the mission and purpose of each institution," Aery said.

In regard to Northeast Missouri State University, Aery recommended there be a statutory change by the Missouri General Assembly for Northeast enabling it to establish a statewide governing board for a public liberal arts institution. This board would be made up of one member from each congressional district and be effective Jan. 1, 1986.

The other branches of the MU system were recommended to submit a plan in which engineering research and equipment needs of the Rolla campus were specified, along with a recommendation

KOZK

Continued from page 1

KODE-TV in Joplin.

Some 220,000 persons will be reached by the new station in the coverage area. This area includes all of Jasper and Newton counties in Missouri, all of Cherokee County in Kansas, and all of Ottawa County in Oklahoma. The station will reach large parts of Barton County, including Lamar; McDonald County, including Anderson and Goodman; and Lawrence County, including Pierce City, in Missouri, and most of Crawford County, including Pittsburg, in Kansas.

According to Massa, "The coverage area means that residents in these counties will be able to receive the Channel 26 signal without subscribing to cable and in most cases without the need for an external antenna. It also means that as a result of the new station, some 39,067 homes which are outside cable franchise areas will, for the first time, be able to receive public television."

Manley

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Manley's duties as head nurse of the Nuevo Intensive Care Unit include the supervision of patient care, the staffing and budgeting, and the general overall management of the one unit within the hospital.

The unit specializes in diseases or injuries to the central nervous system, or patients who have had surgery involving the central nervous system. These injuries can be caused by automobile accidents or diseases which affect the brain or spinal cord. The patients in this area require 24-hour supervision.

One of the things Manley considers most important to consider when dealing with patients or friends and family of patients is the situation.

"If someone is sick, or someone in their family is sick, a person often expresses anger or frustration," he said. "I have to look at the fact that they may have a reason and it's something that after a

while you learn to deal with and accept with people."

Manley feels that one trait a nurse must have is compassion.

"You can be compassionate at work, but you don't have to bring the problems home with you," he said. "When you come home you feel maybe you have made a little bit of difference that day by making a person's problems seem easier."

He feels a nurse should be caring about the welfare of the person he or she is taking care of. A good nurse is someone with common sense and the ability to plan, coordinate and manage work as well as physical treatment specifically ordered by the doctor, according to Manley. A nurse must also be able to make decisions and work under pressure.

"There is a difference between passing medication and doing treatment and displaying care for the patient," according to Manley.

Cultural

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At 11 a.m. Rajiv Kapoor, instructor of computer science, will give a lecture titled "India: continuity and change" in the Connor Ballroom.

From noon to 2 p.m. is the International student's roundtable in the House of Lords Room in the BSC.

The film "The Exterminating Angel," by Spain's premier director Luis Bunuel, will be shown at 7:30 p.m. Tuesday in the Connor Ballroom. There is a \$1 general admission charge.

On Wednesday from 10:40 a.m. to 1:15 p.m. in the cafeteria is Southern style soul food. The menu features black-eyed pea soup, barbecued short ribs, fried catfish, red beans and rice, turnip greens, whole potatoes with green beans, spiced tomatoes, and hush puppies.

Dr. Donald Wilson, president of Pittsburg State University, will lecture on "Only people can break down barriers" at 11 a.m. in the Connor Ballroom.

American Indian paintings will be on display Thursday, Feb. 7, at 10 a.m. in the Connor Ballroom. Ruthe Blalock Jones, art instructor at Bacone (Okla.) College, is the artist.

At noon, "Everything you

always wanted to know about an Indian Pow Wow" will be demonstrated by Sonny Glass, a Quapaw Indian entertainer from Vinita, Okla. He will present a performance featuring authentic Indian dance, music, and folklore in the Lions' Den.

Between 10 a.m. and 1:15 p.m., Thursday, Feb. 7, there will be an American Indian feast. Persons can sample Indian vegetable soup, venison stew, tamale pie, red eye hominy, Indian fry bread, corn pudding, and sweet potato squares in the cafeteria.

On Friday, Feb. 8, from 10:50 a.m. to 11:50 a.m. "A dialogue on religion" will be presented. The three great monotheistic religions will be compared and contrasted in two panel discussions with: Judaism: Rabbi Elisabeth Stern, United Hebrew Congregation, Joplin; Christianity: Dr. Victor Matthews, associate professor of religion, Southwest Missouri State University; Islam: Ahmad Kanan, Joplin businessman, Palestinian refugee.

At 10 a.m. Friday, Feb. 8, "What is the perception of my religion toward the other two?" will be addressed by Dr. Judith Conboy, professor of social science.

Dr. Henry Harder, professor of English, will lecture on "The attitude of my religion toward the other two?" at 11 a.m. on Feb. 8, in the Connor Ballroom. An authentic Oriental special will begin at 10:40 that day with a menu of chicken chow mein, egg fried rice, and sour pork, beef fried rice, and fried vegetables, Cantonese and fortune cookies in the cafeteria.

The Magic Circus of Joplin will perform at 7:30 p.m. Feb. 8, in Joplin's Memorial Hall. Reserve seat tickets are \$5 for the general public, and \$10 for students with full time Missouri Southern citizenship, and children 12. Tickets can be purchased at the student activities office, Memorial Hall, Ernie Wilson's in Joplin and Pittsburg, Mo.

"It's fantastic to think within five days we eat something here Spanish guitar music with a Palestinian refugee, an American Indian dance, see Chinese acrobats without leaving Joplin," said Dr. Allen Riam, associate professor of communications.

EOS device aids research

Electrophoresis, a process in which materials in solution are separated by subjecting them to an electric field, is at the heart of research being conducted to develop pharmaceuticals in space.

Improved treatments for a number of diseases, scientists have determined, might be possible by using certain cells, enzymes, hormones, or proteins produced by the body. Separating these biological materials on Earth, however, is so severely limited by gravity that only small research quantities are available. In space it may be possible that these materials can be separated in sufficient quantities and purities to treat diseases effectively.

McDonnell Douglas Corporation established the Electrophoresis Operations in Space (EOS) project 1977 to explore the advantages of processing in the zero gravity of space. Charles D. Walker, who shares the patent for the device with

McDonnell Douglas, is the project's test engineer. He has also accompanied the device on the space shuttle payload specialist on its last mission.

Since 1982, the electrophoresis device has flown five missions aboard the shuttle. Results from its first four missions demonstrated the advantages of processing biological materials in space. The device separated over 700 times more materials and achieved purity levels times greater than is possible in operations on Earth, according to McDonnell Douglas.

As part of a "Joint Endeavor Project," McDonnell Douglas processes materials of interest to the National Aeronautics and Space Administration (NASA) in space for flight time. The EOS separation process has performed hemoglobin, latex, and live kidney and pituitary cell separations for NASA.

Viaduct

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new viaduct. A bond issue for funding the new viaduct came before Joplin voters three times, but all three failed to generate the necessary two-thirds vote. However, a majority vote in favor of the viaduct was reached each time.

"I went to the city manager and made arrangements to meet with the City Council at the next Council meeting after the last election," Sigars said. "I had to sell my proposal to the Council. I just told them my story, and explained the reasons why I felt the viaduct was so important. They discussed it, and it was unanimously adopted by the Council."

Funds for the new viaduct are coming from federal and local monies.

Closing the viaduct in 1981 affected the Broadway area in several ways, according to Sigars.

"It immediately lowered property values," he said. "Practically all businesses along Broadway depended on Broadway. Since then, a number of businesses are barely hanging on, and some have gone out entirely."

Broadway was also a direct route for many residents attending Missouri Southern. Building the viaduct will have positive effects on the College, according to Dr. Paul Shipman, vice president for

business affairs.

"It will just ease the means of getting over to campus, as well as businesses on the east side of town," said. "As far as the College is concerned it should be a great help. It will give more direct route from that part of town and our students will feel a little resistance."

On-site efforts for constructing the viaduct began early in October by Beachner Construction Co. of St. Louis. Sigars said he and the committee are relieved the new structure is now the construction stage.

"I have met a lot of people in the northeast part of town who have told me how wonderful it was," he said. "I was in the store a few weeks ago, and a lady I had never seen came up and hugged me. She said, 'I've never seen you, but I've heard the tar out of me. I turned around and see who it was, and she told me she had pointed me out as the man responsible for getting the new viaduct. She said, 'I came awful near kissing me.'"

Due to Sigars' efforts in generating community support for the viaduct, the City Council chose to name the structure after him.

"I am very highly honored by naming it after me," he said.

Dolence

Continued from page 4

The facilities and grounds of Southern are a credit to all. In addition to the maintenance of the facilities, Southern is on the move with the establishment of MSTV, an outstanding new facility, where students are uniquely involved.

The report that colleges do not bother to examine the learning and growth of their graduates is already being addressed. A committee has been appointed to review various methods of evaluation and to make recommendations as applicable for Southern.

Certainly the college should assume

Day Care

Continued from page 1

Gillespie, the current director at the center, was also favorable to the idea.

The use of the new facility will give the Board more time for research and planning for a permanent center.

"The Board is not certain where they want to place the addition or separate structure for the child-care center," Shipman said. "By taking this center, it buys us time to smooth out some of the questions concerning the permanent center."

Shipman said the takeover will not af-

fect the children currently at the facility.

"A large part of them are already in with Missouri Southern," he said. "Others will be allowed to continue. They will be phased out as the number of drops occur."

The College will pay rent for use of the facilities, and those students with children in the center will pay enough so the college breaks even, according to Gillespie.

Gillespie said she was pleased with the new arrangement.